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BUREAU OF MINES

MUSEUM BUILDING

14th Avenue and Sherman Street

DENVER 2, COLORADO

ANNUAL REPORT

for the Year

1956



WALTER E. SCOTT, JR.

Commissioner of Mines

Publication Approved by James A. Noonan, State Controller



20 THE GOLDEN BELL PRESS

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LETTER OF TRANSMITTAL

May 1st, 1957

Honorable Steve McNichols
Governor of Colorado
State Capitol Building
Denver 2, Colorado

Dear Governor McNichols:

In compliance with the requirements of the law, Chapter 92, Article 32, Section 11 of the Colorado Revised Statutes 1953, I have the honor to transmit herewith the Report of the State Bureau of Mines for the year 1956.

Respectfully submitted,

Walter E. Scott, Jr.
Commissioner of Mines

PERSONNEL OF THE COLORADO BUREAU OF MINES 1956

WALTER E. SCOTT, JR., Commissioner of Mines Central City
 G. A. (BUD) FRANZ, JR., Deputy Commissioner.....Denver
 NORMAN R. BLAKE, Inspector, District No. 1.....Black Hawk
 FRED E. THEOBALD, Inspector, District No. 2.....Canon City
 JOHN W. DOYLE, Inspector, District No. 3.....Leadville
 ELZIE D. RAY, Inspector, District No. 4.....Montrose
 JOSEPH L. KEATING, Deputy InspectorLeadville
 JOHN H. PAKKA, Deputy InspectorTelluride
 RICHARD C. GROOM, Associate CuratorDenver
 MARGARET G. LAWRENCE, Office SecretaryDenver
 THELMA L. MacMANUS, Accidents & Statistics.....Denver
 NAOMI S. JONES, Information & RecordsDenver

DISTRICTS OF INSPECTION

COLORADO BUREAU OF MINES

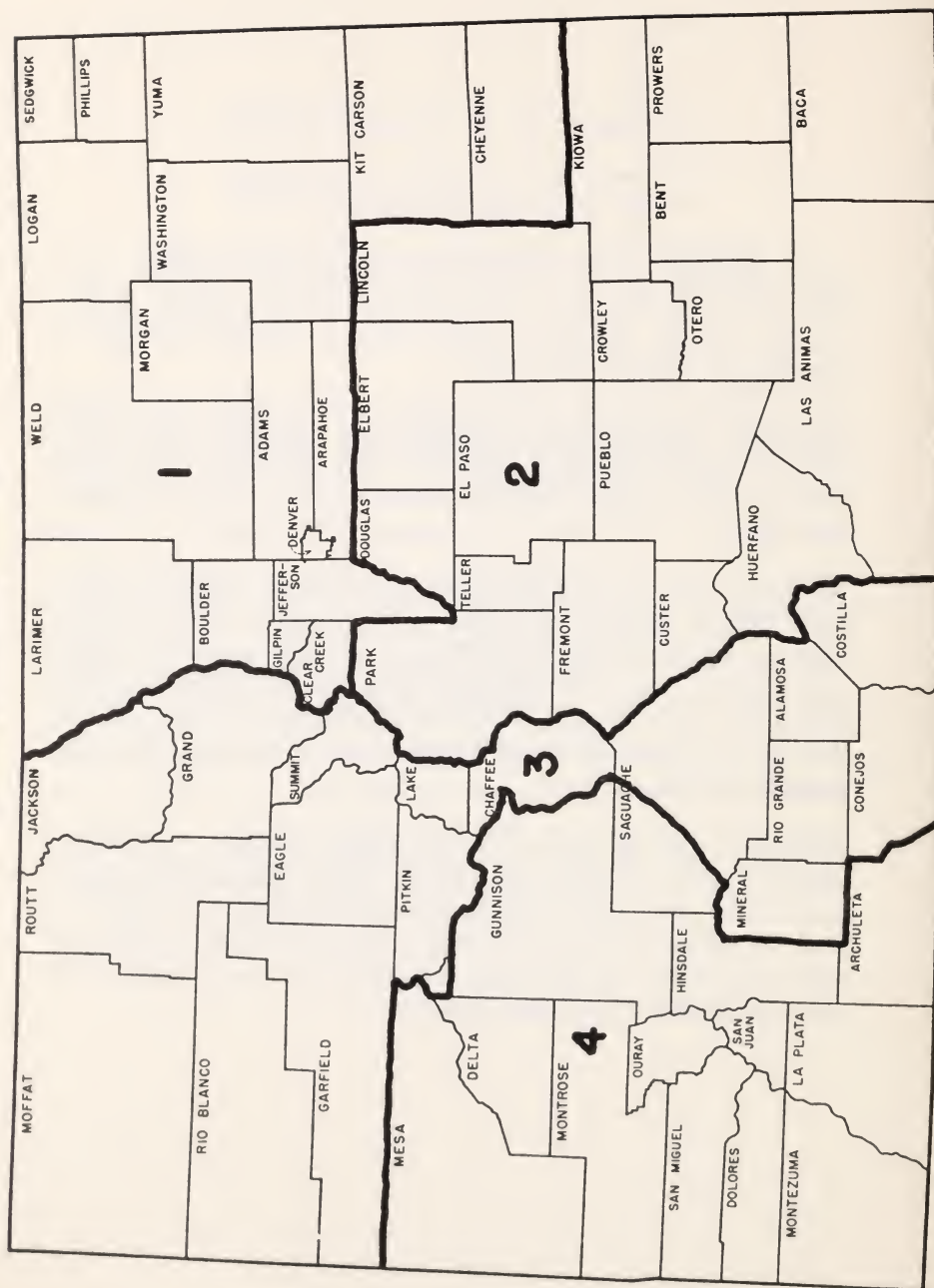
DISTRICT NO. 1, all of the following counties: Adams, Arapahoe, Boulder, Cheyenne, Clear Creek, Denver, Gilpin, Jefferson, Kit Carson, Larimer, Logan, Morgan, Phillips, Sedgwick, Washington, Weld, and Yuma.

DISTRICT NO. 2, all of the following counties: Baca, Bent, Crowley, Custer, Douglas, Elbert, El Paso, Fremont, Huerfano, Kiowa, Las Animas, Lincoln, Otero, Park, Prowers, Pueblo, and Teller.

DISTRICT NO. 3, all of the following counties: Alamosa, Chaffee, Conejos, Costilla, Eagle, Garfield, Grand, Jackson, Lake, Mineral, Moffat, Pitkin, Rio Blanco, Rio Grande, Routt, Summit, and that part of Gunnison County in the extreme northwest corner and lying north of the 39th degree of latitude, and that part of Saguache County lying south and east of the Continental Divide.

DISTRICT NO. 4, all of the following counties: Archuleta, Delta, Dolores, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan, San Miguel and Gunnison County, except the extreme northwest corner lying north of the 39th degree of latitude and that part of Saguache County lying north and west of the Continental Divide.

MAP SHOWING DISTRICTS OF INSPECTION



COMMISSIONERS OF MINES

HARRY A. LEE.....	May 11, 1895—May 10, 1903
E. L. WHITE	May 10, 1903—May 10, 1907
T. J. DALZELL	May 10, 1907—May 10, 1911
T. R. HENAHEN	May 10, 1911—May 10, 1915
FRED CARROLL	May 10, 1915—May 10, 1919
HORACE F. LUNT	June 1, 1919—June 1, 1923
JOHN T. JOYCE	June 1, 1923—June 12, 1939
EDWARD P. ARTHUR	June 12, 1939—August 26, 1943
FRED JONES	September 27, 1943—April 25, 1950
WALTER E. SCOTT, JR.....	May 3, 1950

PUBLICATIONS OF THE BUREAU OF MINES

BULLETINS

- Bulletin No. 1, Recommendations for Safety Appliance in Mining, Harry A. Lee, Commissioner of Mines, 1896.
- Bulletin No. 2, Precious Metal Production for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.
- Bulletin No. 3, Mining Laws, Relative to Bureau of Mines Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1899.
- Bulletin No. 4, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1901.
- Bulletin No. 5, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1902.
- Bulletin No. 6, Regulations Relative to the Construction, Equipment and Operation of Metalliferous Mines, Mills and Metallurgical Plants, Recommendations and Mineral Production for 1905, E. L. White, Commissioner of Mines, 1906.
- Bulletin No. 7, Federal and State Laws Relating to Mining, Fred Carroll, Commissioner of Mines, 1916.
- Supplement to Bulletin No. 7, Mining Laws Enacted by the Twenty-first General Assembly, Fred Carroll, Commissioner of Mines, 1917.
- Supplement No. 2 to Bulletin No. 7, Amendments to the Mining Laws Enacted by the Twenty-second General Assembly, Horace F. Lunt, Commissioner of Mines, 1919.
- Supplement No. 3 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-third General Assembly, Horace F. Lunt, Commissioner of Mines, 1921.
- Supplement No. 4 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-fourth General Assembly, Horace F. Lunt, Commissioner of Mines, 1923.
- Bulletin No. 8, The Oil Shales of Northwestern Colorado, Horace F. Lunt, Commissioner of Mines, 1919.
- Bulletin No. 9, Mine Safety Standards, Horace F. Lunt, Commissioner of Mines, 1920. Out of print, now embraced in Bulletin No. 11.
- Bulletin No. 11, Federal and State Laws Relating to Mining, John T. Joyce, Commissioner of Mines, 1931.
- Bulletin No. 12, Mining Laws of Colorado, Edward P. Arthur, Commissioner of Mines, 1942.
- Bulletin No. 13, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1946.
- Bulletin No. 14, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1949.
- Bulletin No. 15, Oil Well Safety Laws, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Circular No. 1, Location of Lode and Placer Mining Claims, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Bulletin No. 16, Colorado Mining Laws with Rules and Regulations, Walter E. Scott, Jr., Commissioner of Mines, 1954.

REPORTS

- Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry A. Lee, Commissioner of Mines, 1896.
- Report for the Year 1897, Harry A. Lee, Commissioner of Mines, 1898.
- Report for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.
- Biennial Report for the Years 1899-1900, Harry A. Lee, Commissioner of Mines, 1900.
- Biennial Report for the Years 1901-1902, Harry A. Lee, Commissioner of Mines, 1903.
- Biennial Report for the Years 1903-1904, E. L. White, Commissioner of Mines, 1905.
- Biennial Report for the Years 1905-1906, E. L. White, Commissioner of Mines, 1907.
- Biennial Report for the Years 1907-1908, T. J. Dalzell, Commissioner of Mines, 1909.
- Biennial Report for the Years 1909-1910, T. J. Dalzell, Commissioner of Mines, 1911.
- Biennial Report for the Years 1911-1912, T. R. Henahen, Commissioner of Mines, 1913.
- Biennial Report for the Years 1913-1914, T. R. Henahen, Commissioner of Mines, 1914.
- Biennial Report for the Years 1915-1916, Fred Carroll, Commissioner of Mines, 1916.
- Biennial Report for the Years 1917-1918, Fred Carroll, Commissioner of Mines, 1919.
- Annual Report for the Year 1919, Horace F. Lunt, Commissioner of Mines, 1920.
- Annual Report for the Year 1920, Horace F. Lunt, Commissioner of Mines, 1921.
- Annual Report for the Year 1921, Horace F. Lunt, Commissioner of Mines, 1922.
- Annual Report for the Year 1922, Horace F. Lunt, Commissioner of Mines, 1923.
- Annual Report for the Year 1923, John T. Joyce, Commissioner of Mines, 1924.
- Annual Report for the Year 1924, John T. Joyce, Commissioner of Mines, 1925.
- Annual Report for the Year 1925 was fully prepared but, because of lack of funds, was not printed. The manuscript is on file in the office of the State Bureau of Mines.
- Annual Report for the Year 1926, John T. Joyce, Commissioner of Mines, 1927.
- Annual Report for the Year 1927, John T. Joyce, Commissioner of Mines, 1928.

- Annual Report for the Year 1928, John T. Joyce, Commissioner of Mines, 1929.
- Annual Report for the Year 1929, John T. Joyce, Commissioner of Mines, 1930.
- Annual Report for the Year 1930, John T. Joyce, Commissioner of Mines, 1931.
- Annual Report for the Year 1931, John T. Joyce, Commissioner of Mines, 1932.
- Annual Report for the Year 1932, John T. Joyce, Commissioner of Mines, 1933.
- Annual Report for the Year 1933, John T. Joyce, Commissioner of Mines, 1934.
- Annual Report for the Year 1934, John T. Joyce, Commissioner of Mines, 1935.
- Annual Report for the Year 1935, John T. Joyce, Commissioner of Mines, 1936.
- Owing to lack of funds the 1936 Annual Report of the State Bureau of Mines was not published.
- Annual Report for the Year 1937, John T. Joyce, Commissioner of Mines, 1938.
- Owing to lack of funds the 1938 Annual Report of the State Bureau of Mines was not published.
- Annual Report for the Year 1939, Edward P. Arthur, Commissioner of Mines, 1940.
- Annual Report for the Year 1941, Edward P. Arthur, Commissioner of Mines, 1942.
- Annual Report for the Years, 1942 and 1943, Fred Jones, Commissioner of Mines, 1944.
- List of Mines for the Year 1944, Fred Jones, Commissioner of Mines, 1945.
- List of Mines for the Year 1945, Fred Jones, Commissioner of Mines, 1946.
- Annual Report for the Year 1946, Fred Jones, Commissioner of Mines, 1947.
- Annual Report for the Year 1947, Fred Jones, Commissioner of Mines, 1948.
- Annual Report for 1948 was not published.
- Annual Report for the Year 1949, Walter E. Scott, Jr., Commissioner of Mines, 1950.
- Annual Report for the Years 1950 and 1951, Walter E. Scott, Jr., Commissioner of Mines, 1952.
- Annual Report for the Year 1952, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Annual Report for the Year 1953, Walter E. Scott, Jr., Commissioner of Mines, 1954.
- Annual Report for the Year 1954, Walter E. Scott, Jr., Commissioner of Mines, 1955.
- Annual Report for the Year 1955, Walter E. Scott, Jr., Commissioner of Mines, 1956.

FOREWORD

The Bureau of Mines of the State of Colorado was established by an Act of the Tenth General Assembly and approved March 30, 1895. The Bureau of Mines Law established the office of Commissioner of Mines which had been authorized by the Colorado State Constitution in 1876 (Article 16, Section 1), and charged the Commissioner of Mines, among other things, with the supervision of Metal Mine Inspection and the enforcement of laws relative to health and safety in Metal Mines. Subsequently, this Act was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, and rock excavations, tunnels, or mine workings of whatever kind or character, except coal mines."

The Thirty-sixth General Assembly in 1947 passed an Act requiring, in addition to the above, that the Commissioner of Mines conduct safety inspection of all oil wells, property and equipment appurtenant immediately and used in connection with producing oil wells and further charged him with the enforcement of laws relating to the health, safety, and welfare of any person employed in such wells, or other property.

From time to time, and by various opinions and decisions, the Colorado Bureau of Mines, under the direction of the Commissioner of Mines, has been authorized and empowered to make safety inspections of all underground metal or mineral mines, open pit or other surface mines, rock and mineral quarries, clay pits and mines, earth and rock dams, water canals, highway excavations, highway gravel pits, all rock excavations, rock tunnels or any mine workings of whatever kind or character (except coal mines), ore mills, mineral grinding plants, highway gravel crushing plants, sampling works, smelters, chemical plants producing a chemical from ore or minerals, metallurgical plants, oil and gas wells and all equipment and machinery used in connection with any of the above and all buildings thereon.

The Commissioner of Mines was authorized to make such rules and regulations as may be necessary for carrying out provisions of safety, and he has further been charged with the enforcement of laws relating to the health, life, safety and welfare of all persons employed in any of the above mentioned categories. The Commissioner, upon receipt of reliable information indicating any condition that might be injurious or dangerous to the health or safety of workmen employed in these places, or any time when he deems it necessary, makes inspections or has inspections made by the inspectors of the Bureau of Mines who report to him on any unsafe condition or unsafe practice. Whenever possible, all accidents are inquired

into and a record is kept giving complete information concerning accidents. All fatal accidents are promptly inquired into by an inspector and a complete written report, made to the Commissioner of Mines, becomes a part of the records of the Bureau of Mines.

The Bureau of Mines is required to disseminate such information concerning mining and minerals as may be required by the public, and when he has opportunity and means, the Commissioner of Mines is charged with collecting and preserving mineral specimens and accumulating technical and other data relating to mining, metallurgical processes and geology. He is also required to examine, report on and record the geological formation of important mining districts or mining areas.

The Commissioner of Mines has authority to undertake any research project which would be of assistance to those engaged in mining or which in any way would help to develop the mineral resources of Colorado. He is charged with the responsibility of making investigations regarding prospecting, buying, selling, transporting, treating and reducing ores and minerals, and of recording the progress of the mineral industry providing, of course, that he has means therefore to do so.

The Commissioner of Mines may, from time to time, with the consent of the Governor, compile, publish and distribute bulletins on subjects, districts and counties. When considering a county or district, the report shall give in detail the history of the locality, the geology, the record of mines and mills, the processes of treatment with results, and shall classify and locate mining property and prospects, together with maps of the same provided, of course, that there are appropriations for such work.

The first and foremost function of the Colorado Bureau of Mines is Safety Inspection. By inspections and investigations consistent efforts are made to see that safe methods and safe practices are used to protect the health, life, safety and welfare of all persons employed in the mineral and other industries under the jurisdiction of the Bureau.

The Bureau of Mines has in its custody one of the very finest mineral collections in existence. In addition to the specimens from all over the world, one of the most unusual features of this collection is the fact that it contains specimens of ore from all of the great mines of Colorado. While the collection is visited annually by thousands of tourists, it continues to be of much interest and concern to prospectors, miners, engineers, geologists and persons genuinely interested in Colorado's mineral

industry. Foreign engineers and geologists have been most enthusiastic about the Colorado collection. Many new specimens from Colorado mines were added to the collection during 1956.

In addition to their regular duties of inspection and investigation, Bureau of Mines Inspectors are qualified to teach standard U. S. Bureau of Mines First-Aid classes. Many such classes have been taught in all districts over the State and we feel that this instruction tends to promote safety in the minds of both the operator and miner as well as to provide trained personnel in the industry for emergency first-aid treatment. These classes are usually taught after hours; however, they can be taught any time that is convenient with the operator and employee and the Bureau of Mines welcomes the opportunity to provide this additional service upon application by the operator or any group connected with the mining industry. One member of our staff, G. A. Franz, Jr., is qualified to examine and issue cards to members of completed classes in Colorado and we hope to have most of our inspectors so rated in the future. During the year the Colorado Bureau of Mines has acquired six sets of Chemox Breathing Apparatus and our inspectors are available and qualified to give instruction in the emergency use of this equipment.

Advice and information are freely given to prospectors and small operators in order to further the State's mineral development but no written reports on mines are made and care is taken not to encroach on the proper field of consulting engineers and geologists.

Much of the work of the Bureau of Mines, including this report, would not be possible if it were not for the generous cooperation of other departments and agencies. It is impossible for us to thank individually the persons to whom we are indebted, but we are most grateful to all who have been helpful.

The compiling and preparations of this report have been the work of the entire staff of the Bureau, including the inspectors who furnished much of the data concerning their districts. Each and every member of the staff is to be congratulated and thanked for his most generous cooperation and help.

Every effort has been made to assure accuracy and completeness of the data used in the report but changes, due to removal and altered mining conditions, are constantly taking place which may cause some omissions or mistakes to appear in the publication. It will be most appreciated if any additions, corrections or errors are brought to the attention of the Colorado Bureau of Mines.

The publication of this report is authorized by Chapter 92, Article 32, Section 11, of the Colorado Revised Statutes, 1953.

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1940-1941

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1940-1941

1940-1941

The principal producing districts in the State of gold, silver, copper, lead and zinc were:

1. San Miguel County
2. Eagle County
3. Gunnison County
4. Teller County
5. Dolores County
6. Lake County

The leading producers of gold, silver, copper, lead and zinc were:

GOLD	Golden Cycle Corporation Cripple Creek, Colorado
SILVER	Empire Zinc Division, The New Jersey Zinc Company, Gilman, Colorado
COPPER	Idarado Mining Company Ouray, Colorado
LEAD	Idarado Mining Company Ouray, Colorado
ZINC	Empire Zinc Division, The New Jersey Zinc Company, Gilman, Colorado

The average prices of the above mentioned metals in 1956 were: Gold, \$35.00 per ounce; Silver, \$0.905 per ounce; Copper, \$0.419 per pound; Lead, \$0.160 per pound; and Zinc, \$0.135 per pound.

Colorado's petroleum production again reached a new record high of over \$166,000,000 in 1956. Production was recorded from 240 separate fields located in twenty-two different counties of the State. A total of 4,954 wells were drilled in 1956 with 1,565 being producers of oil, 833 producers of gas, and 2,556 considered dry holes, thus giving Colorado a success ratio of 48.40 per cent.

Rio Blanco County was first in production of oil in 1956 with over 30,620,000 barrels, Logan County was second with 7,971,445 barrels, and Morgan County was third with 7,372,139 barrels. The Rangely Weber Field was first with 27,894,644 barrels and the Adena Field in Morgan County was second with 5,625,833 barrels. With new fields being brought in each year and Colorado's wildcat drilling showing a remarkable success, the State's oil industry will no doubt continue to grow. An estimated \$64,000,000 was spent on oil and gas well drilling in 1956 and this figure is not included in production valuations.

Oil shale activities in Colorado have increased during the year which, no doubt, will in time tap Colorado's vast storehouse of this mineral and add to future petroleum production.

PRODUCTION OF METALS, NON-METALLICS, PETROLEUM, 1956

	Metals
Uranium (Mining and processing with Vanadium by-products—Value to State)	\$124,500,000
Molybdenum	44,237,000
Zinc	11,968,730
Lead	6,702,200
Tungsten	4,600,000
Copper	3,963,300
Gold	3,632,445
Silver	2,319,740
Miscellaneous (Metals which cannot be separated for production value)	1,440,000
Pyrite	308,000
Beryllium	58,000
Tin	20,000
TOTAL.....	\$203,749,415

	Non-Metallics
Building and other stones	\$ 2,363,332
Cement	13,150,000
Clays	1,409,380
Feldspar, Mica, etc.	422,140
Fluorspar	3,340,315
Limestone, Dolomite, etc.	2,906,248
Perlite	725,200
Sand and Gravel	10,889,000
Miscellaneous (Pumice, Gem Stones, etc.)	208,715
TOTAL.....	\$ 35,414,330

	Petroleum
Crude Oil	\$160,867,778
Gas (All classes, well head value)	6,000,000
TOTAL.....	\$166,867,778

	Recapitulation
Metals	\$203,749,415
Non-Metallics	35,414,330
Oil and Gas	166,867,778

TOTAL MINERAL PRODUCTION\$406,031,523

CUSTER (2)

The Barnhisal Construction Company's Green Quarry near Rosita, which is owned by the Great Lakes Carbon Company, continued their steady production of perlite in 1956. Raw perlite is shipped to the Florence plant for sizing and from there it is shipped to other parts of the country for exfoliating. There was some development activity in the Wet Mountain Valley area and some production was reported from that district. The Tom Boy and Navajo lodes operated for a time during the year. John K. Banks shipped several cars of copper ore from the Dead Mule area, and the Defender and Passiflora Mines had part-time development. Turner & Son operated a small flotation mill part-time at Silver Cliff on ores from their local mine and dump.

DELTA (4)

Sand and gravel production in Delta County continued throughout the year at the Delta Sand & Gravel Company's pits and at the Hamilton pits at Cedaredge. Some surface mining was done at the Doty Sulphur pits between Delta and Hotchkiss. This sulphur is used for fertilizer manufactured by the Atlas Mining & Manufacturing Company of Delta. Some oil well drilling was done during the year and uranium prospecting continued.

DENVER (1)

Late in 1956 the Denver Research Institute began construction on their ASPECO oil shale research plant which, no doubt, will have a beneficial effect on future oil shale development in Colorado. Another addition to the development of Colorado resources is the Kerr-McGee metallurgical and research laboratory which was recently opened in Denver. This laboratory, under the direction of V. L. Mattson, will direct work on uranium processing research. The Denver plant of the General Chemical Division of the Allied Chemical & Dye Corporation maintained steady production during the year. The Consolidated Feldspar Plant of the International Minerals & Chemical Corporation and the American Smelting & Refining Company's Globe Plant operated at full capacity in 1956.

DOLORES (4)

Rico Argentine, the largest operation in Dolores County, has shown some production from the St. Louis Tunnel which, when completed, will connect with the Blaine workings some 500 feet above. Production of lead and zinc has been about the same as 1955. The tailings upgrading plant below the Rico Argentine Mill was completed during the year and this process will insure another year's supply of pyrite for the acid plant without securing tonnage from underground. E. J. Lane did some work at the Eagle Tunnel and the Jones Brothers operated the St. Louis Claim and their cleanup plant during the summer months. Uranium prospecting continued in the Dunton area.

DOUGLAS (2)

The Helmer open pit, operated by T. L. Helmer, and the Hcgback Nos. 2 and 3, operated by the Robinson Brick & Tile Company, were heavy clay producers in the county during the year. Stroud Wisenhunt produced a large tonnage of clay from Stevens Ranch mine near Castle Rock.

EAGLE (3)

The Eagle Mine and Mill, operated by the Empire Zinc Division of the New Jersey Zinc Company, continued their large scale operations during 1956 without interruption. Development work continued on the lower levels of the mine and new electrical transmission equipment was installed. White, Green & Addison Company have moved their drilling equipment into the Edwards vicinity and will move to the Piney Ridge area later for uranium exploration. A large low-grade fault containing copper ore was located in the Fulford district and this is being worked from the surface with a bulldozer. R. J. Johnson & Associates are the owners of the property which was covered by twenty-one new claims. Uranium activity continues throughout the county and considerable development work has been done on uranium claims owned by the Sawmill Uranium Corporation and Basic Exploration Company. The Ideal Lava Products Company, producers of cinder blocks, operated throughout the year.

EL PASO (2)

Four operations were listed in El Paso County during 1956, which included the Hecla Clay Mine operated by Dale Hoover, the Castle Concrete Company, the Castle Quarry, and the Kathryn (uranium mine prospect) operated by Cliff & Creek Uranium Company. Uranium prospecting continued in the county with a reported discovery in the Garden of the Gods by Walter Miller and D. D. King. The Golden Cycle Corporation produced considerable tonnage of concrete aggregate from their Golden Cycle pit.

FREMONT (2)

Among the many and varied producers of Fremont County were the Burnito Quarry, producer of ganister; Copper Queen, producer of copper; Empire Zinc Company, producer of zinc; Colorado Fuel & Iron Works, producer of dolomite; Cowan Brothers, producers of travertine and building stone; and a host of others. Heavy production of limestone was made by American Crystal Company from their mine near Wellsville, and also by the Colorado Limestone Company from their quarries at Calcite. Coaldale Gypsum Quarry, owned and operated by the Fibreboard Paper Products, Incorporated (Pabco), shipped their product to their new two and one-half million dollar plant recently completed at Florence. Thorium prospecting has been heavy and there has been considerable talk

of converting the Parkdale plant into a thorium reduction plant. Jack S. Josey & Associates have received a Government contract for uranium exploration, which indicates encouraging prospects for uranium production in the county. Heavy aggregate, gypsum, travertine, beryl, marble, feldspar, columbium-tantalum, and sand and gravel add to Fremont County's mineral production. The Juniper Oil & Mining Corporation shipped several carloads of uranium ore from the Snooper-Dickson Mine late in the year. The quarry and plant of the United States Soil Conditioning Company at Wellsville operated throughout the year.

GARFIELD (3)

Garfield County ranks high as one of the many counties in the State to show increased mining activity. The Union Oil Company at Parachute Creek has made great strides this year in the development of their oil shale pit and extraction plant. Both Isbell Construction Company and Stearns-Roger Manufacturing Company have been contracting on this project all year. The Union Carbide Nuclear Company expects to have its new uranium reduction plant in operation by the fall of 1957, and this will increase the amount of uranium ores treated in this area. The old plant will continue in operation until the new plant is completed. The oil shale plant and mine formerly operated by the United States Bureau of Mines has been turned over to the Naval Petroleum Oil Reserves and additional activity can be expected from this Anvil Point area. There is some uranium production but prospecting and development continues in the county. Standard Uranium Company has completed a gas well in the western part of the county which flows over twenty-three million cubic feet per day.

GILPIN (1)

Although inactive during the latter part of the year, the Glory Hole, Inc. and the United Mining & Leasing Company did considerable work on their properties early in 1956. The Consolidated Gold & Uranium Company operated the Treasure Key Tunnel and extended the main tunnel for a considerable distance toward undeveloped ore reserves in the Lake Gulch area. The Cherokee Uranium Mining Corporation operated its Cherokee and Widow Woman properties during the year. Thirty-nine separate operations were listed in the county during the year, which showed an increase in activity over 1955. Uranium prospecting continued at a high pitch during the weeks, as well as over week-ends, and many small deposits were located. Most of the activity throughout the year was in cleaning out and sampling old properties, and new work in unexplored areas was at a minimum. The Realty Company did some work on a raise to connect the Calhoon and Wood properties. Large amounts of peat were shipped from the bogs of Gus Rudolph and the Braecher Ranch Company.

GRAND (3)

William Brown & Associates have operated the No Name uranium property during 1956. This mine is one of the highest uranium deposits in the State and is located near the top of Jones Pass at 12,543 feet in elevation. The ore is known as autunite.

GUNNISON (3 & 4)

Mining activity in Gunnison County has shown a steady increase for the past two years in both uranium and base metals. The Gunnison Mining Company, owner and operator of the Los Ochos property, has secured a permit to construct a mill near Gunnison which will treat uranium ores from the district. Atlas Uranium Corporation, operator of the Hawkeye property, has constructed a mill near Crested Butte and this plant will be expanded for more tonnage before spring. Vulcan Silver Lead Company's operations in the Marshall Pass area are showing promising results and James Dunn, its manager, expects to have the property in production very soon. American Smelting & Refining Company's Keystone property near Crested Butte has been producing all year and this operation has greatly increased silver, lead, zinc and copper production in the county. Some other operations starting this year are the Carter and Raymond on Gold Creek, the Daisy Mine operated by the Redwell Basin Mining Ventures, the Willow Creek Mine, and the Brown Derby.

HINSDALE (4)

Although considerable interest has been shown in Hinsdale County mining properties, very little actual production was listed in 1956 from this former large-producing county. Moab Uranium Company did some work on the Detroit, Gnome and Golden Wonder properties and the Intermountain Engineering Company worked the Gold Quartz property during the summer months. Mendenhall and Pray shipped some high-grade gold and silver ore from the Pelican and Black Crooke Mines. Some work was done at the Rodney portal.

HUERFANO (2)

Low grade uranium deposits have been located in the Gardner Basin district and many large companies have been interested in the district and have staked claims. Experimental work has been done on up-grading the low-grade ores so that the same can be made commercially practical. Future production will depend on the success of this process. Some wildcat oil well drilling was done in the county during the year.

JACKSON (3)

Ozark-Mahoning Company at Cowdrey operated their North Gate Mill all year on steady tonnage from their Whale Pit and Two Hundred Level fluorspar mines. Although production lagged during the summer months due to the expiration of the Government stockpile and price support program,

full scale operations were resumed when this support plan was re-established. Development work continued on the Alcoa shaft under the direction of the Mine Management Corporation, and Harold Rosenfield did considerable work at the Cap Rock Mine. The Continental Oil Company, Lion Oil Company and other oil operators and producers were very active in the county during the year.

JEFFERSON (1)

Jefferson County remained the State's largest producer of clay in 1956 with steady production coming from the State Quarry, from the Strainland, Church, Rubey, Rockwell, Pierce, Lariat, Lakewood, Johnson, Hedley, Chieftain, Cass, Green Mountain and other mines. The Schwartzwalder uranium property on Ralston Creek was purchased this year by the Denver-Golden Oil & Uranium Company, which resulted in stepped-up activity at all of their properties in the county. Large deposits of primary and secondary ore have been developed and this has produced large shipments of uranium ore of exceptionally high value. Several mining companies have completed arrangements for DMEA loans for development purposes, and claim filing and prospecting in the county is at a high pitch. The Beryl Ores Company continued their program of purchasing and treating beryl ore, although no large production from the county was reported. Sand and gravel production increased over 1955 and some gold was recovered from these operations. Considerable wildcat drilling for oil was reported in the early part of the year.

KIT CARSON (1)

Oil activity remained about the same in Kit Carson County during 1956. However, the Seaboard Oil Company has plans for further exploration in 1957. No production was recorded from the county.

LAKE (3)

Lake County leads all other counties in the State in both dollar value and tonnage production of metallic minerals. The Climax Molybdenum Company, with the completion of a new milling unit this year, has maintained its record production of over 32,000 tons per day. This tonnage comes from both the Storke and Phillipson Levels which were connected with an ore pass, thus enabling ores from the Phillipson to be crushed at the Storke Level crushing plant. Ryan Construction Company completed installation of a 30-inch water line from Robinson Lake to the industrial tank at Climax. The Resurrection Mining Company completed rehabilitation of its mill, which makes this one of the most modern 400-ton units in the State. Resurrection's joint development with the American Smelting & Refining Company on the Irene property has been encouraging and new fire-proof surface buildings were erected near the shaft collar during the year. Its other properties, the Helena

and Julia Fiske, operated throughout the year. Cadwell Mining Company operated the Hayden Shaft property and the Jones Leasing Company operated the Resurrection No. 2 until the surface buildings were destroyed by fire during the summer. Very encouraging reports have been released from the American Smelting & Refining Company's Arkansas Valley smelter regarding increased and continuous tonnages from all over the State and area. Boyle Brothers are contracting to open and re-timber the Carlton Tunnel owned by the High Line Canal Company.

LA PLATA (4)

Oil well drilling in the Red Mesa area continued throughout the year and several new producers were reported. From Ignacio south to the New Mexico border and west to the Utah border, gas well drilling brought in many new wells which make this area a heavy gas producer in the State. The Vanadium Corporation of America's Durango plant operated consistently throughout the year at capacity tonnage. Uranium ore was received from Colorado, Utah, and New Mexico. Zodomoc Mines, Inc. has started construction of a new mill at the mouth of La Plata Canyon and ores from the Bessie G Mine will be treated there. Reported high-grade ore was shipped from the Muldoon property located high in the La Plata mountains. Other properties, including the Aller Tunnel, the Brawnner Tunnel, the Knoll Mine and the Nevada Good Hope, were active.

LARIMER (1)

The Boettcher Quarry at La Porte, operated by the Ideal Cement Company, substantially increased its production during the year and quarry transportation was changed from railway to large diesel trucks. New plant facilities were added to accommodate the increased tonnage. The Norberg Lime Quarry and the United States Gypsum Company maintained a steady output for the year and other quarrying operations by Jacobson-Evans and Ohline, as well as several smaller operations, were continuous throughout the year. The Uranium Queen Exploration Company has opened and developed a sizeable deposit of uranium ore at its Uranium Queen Mine west of Fort Collins. Many other uranium properties were worked with some production recorded from the county. Sand and gravel continued to add to Larimer County's production. Oil activity was on the increase with several new wells completed around Loveland.

LAS ANIMAS (2)

The Santa Fe Clay Mine, owned by the Standard Fire Brick Company and operated by the Scott-Ruiz Coal Company, maintained steady production of clay during the year. The Trinidad Brick & Tile Company operated its surface clay pit without interruption. Several oil companies were active in the county during the year with exploratory drilling.

LOGAN (1)

Logan County remained second in the State for oil production during 1956 with 65 active fields producing nearly 8,000,000 barrels of oil. Exploration and wild cat activity showed a decline during the year which indicates that this county has settled down to a steady production. Nineteen fifty-six production was slightly less than 1955.

MESA (4)

In addition to Mesa County's uranium and oil activity, negotiations were made during the year for development of oil shale deposits near De Beque by the Oil Shale Corporation. Scattered oil drilling was done in the west end of the county with encouraging results. Mesa County has maintained its second place in uranium production in the State and new deposits, as well as old ones, have been developed. Activity on Calamity Mesa, Beaver Mesa, Outlaw Mesa, Blue Mesa and other districts in the county continued with a high rate of production. Testing and sampling facilities were expanded at the Grand Junction AEC plant and the Climax Uranium Company operated its reduction mill at full capacity all year. The American Gilsonite Company is constructing a multi-million dollar refinery northwest of Grand Junction and the plant will operate on material piped in from Utah.

MINERAL (3)

With the completion of the new Emperius Mill at Creede and the actual starting of operations in the latter part of the year at the Commodore and Amethyst Mines, production from this county is above 1955. The new modern mill of the Emperius Mining Company was constructed to replace the old mill that burned in 1955. The Gormax Mining Company has completed negotiations for a DMEA loan to explore for lead-zinc ore on its property. Both the Sublet and Outlet Mining Companies were active during the year, and uranium prospecting continued with reported success. Diversified Resources, Inc. did some test drilling on the sulphur deposit beds near the town of Creede.

MOFFAT (3)

Uranium development in Moffat County continued throughout 1956 and the Trace Elements Company, in addition to the operation of its Bromide and Marge shaft properties, negotiated for the construction of a mill at Maybell for treatment of uranium ores in the district. Late in the year it was announced that the Union Carbide Nuclear Company had taken over the Trace Elements property and would continue with the construction of the mill. The Western Exploration Company and the Jacobs Chair Mining Company were among those active in uranium development during the year. Considerable wildcat oil drilling was done in addition to the steady production coming from Hiawatha Dome, Powder Wash, Tow Creek, Isles Dome, Maudlin Gulch and the Elk Springs oil fields.

MONTEZUMA (4)

With uranium coming from the Roberta-Jean Mine and continuous development on the Cross No. 1, Blue Eagle and Yellow Lizzard Mines, Montezuma County can show uranium production for the first time. George Gilmore conducted development work at the Red Arrow Mine during the summer and this once famous gold producer north of Mancos shows encouraging indications for future production. The Colorado Carbonics Plant in McElmo Canyon had a steady production of CO₂ during the year. Several oil well rigs were drilling in the McElmo Canyon area near the Utah border.

MONTROSE (4)

With over 130 operating uranium mines in the county, Montrose continues to be the State's largest producer of uranium ore. In addition to these operating properties two reduction plants are located within the county: one at Naturita, operated by the Vanadium Corporation of America, and one at Uravan, operated by the Union Carbide Nuclear Company. Capacity of both plants has been increased during the year. The Uravan plant has recently completed construction of a water reclamation and tailings disposal unit on Club Mesa above the mill. Prospecting and development projects are scattered over the entire county and new deposits have been located on Long Park, Monogram Mesa, Atkinson Mesa, Bull Canyon, Gypsum Valley, Paradox Valley, Carpenter Flats, Carpenter Ridge and many other areas in the county. A new mill will be constructed at Bedrock in Paradox Valley by the Atomic Fuel Extraction Corporation. This mill is scheduled to be in operation in 1958. In addition to uranium activity the St. Helena Petroleum Corporation and the Pure Oil Company are drilling wildcat wells on Horse Fly Mesa and northeast of Montrose.

MORGAN (1)

Oil activity in Morgan County showed an increase in 1956 with considerable off-set drilling being done in the latter part of the year. Oil production this year was slightly under the 1955 figure although the Adena field remained second in production in the State. Production came from thirty-two active fields.

OURAY (4)

Notice was received late in the year that King Lease operations in Ouray County would terminate and that the Camp Bird, Limited would take over the property. Present plans call for a year of development and exploration by the English company, owners of the property, during which time new milling facilities will be installed. King Lease has had a continuous operation at the famous old Camp Bird Mine for the last thirty years. The Idarado Mining Company announced late

in the year that all tonnage from the Red Mountain side of its property would be milled at its new installation at Telluride which has a capacity of 1,400 tons per day. Utaco Uranium, Inc. has re-conditioned its Silver Shield Mill at Ouray and is operating on ores from the Bradley Mine at Telluride. Operations at the Mayflower Mining Company's property above Iron-ton continued throughout the year and some mining was started at the Pony Express Mine below Ouray. Other operators were Porter & Son at Brown Mountain, and the new Rolling J. Mill below Ouray.

PARK (2)

Mining activity in Park County showed a marked increase this year over 1955 with over thirteen separate properties in operation. A new beryl discovery was reported on the old Boomer property northwest of Lake George and ore was shipped from this property during the year. In addition to the Montgomery Dam project, the Blue River Constructors assumed active charge of the Harold B. Roberts water tunnel at Grant. This project is being pushed toward the west portal at Dillon. Some uranium production was reported from the Parco property. The Leadville Lead & Uranium Company did considerable development work in the Horseshoe area. Other gold, silver, lead and zinc properties in operation during the year were the Betty, Buckskin Joe, Ling, Queen Mary, W. G. Mine, Alma Placer, Douglas Quarry, and the Sugar Loaf Quarry. The Shell Oil Company drilled five wells in South Park near Hartsel.

PHILLIPS (1)

An increased amount of wildcat oil drilling was done in Phillips County during 1956 but no production was recorded. More activity is planned for 1957.

PITKIN (3)

The Smuggler Mine has been operated intermittently by John F. Lewis and small shipments of ore were made to the smelter in Leadville. The Roaring Fork Pumice Production Company, operated by E. H. Bone, continued to manufacture building block from pumice stone recovered from an open pit quarry, and the Borealis Mining Company of Aspen started work at the old Montezuma Mine.

PUEBLO (2)

Active operations in Pueblo County during 1956 were the International Minerals & Chemical Company's Mica Grinding plant, the Standard Fire Brick Company's Chamblin & Rock Creek Mines, the Pueblo Clay Products Company's Meadow No. 5, Stone City Nos. 1, 2 and 6, and Arthur Wands' Nellie Helen Clay Mine. Clay production continued throughout the year and uranium prospecting was again evident but no production was reported. Sand and gravel production continued to be heavy. Some oil activities were reported in the county during the year.

RIO BLANCO (3)

Considerable wildcat drilling was done in Rio Blanco County in the Pieance Creek area which resulted in increased gas production. There were several new shallow wells drilled in the Rangely Field which also were very good producers. Rangely Field, the largest oil producer in the State, operated continuously throughout the year. There also was a considerable amount of uranium exploration done in Rio Blanco County east of Meeker on Uranium Peak. Some shipments were made from this area during the summer months.

RIO GRANDE (3)

The Summitville Mines, operated by the General Minerals Corporation, did considerable cleaning and retimbering at the Reynolds-Morse property near Summitville. Except for uranium prospecting, no other operations were reported.

ROUTT (3)

The Copper King Mine, operated by McFarland and Hurlinger of Tooele, Utah, made shipments of copper-silver ores and the McCoy Aggregate Company shipped a considerable tonnage of scoria from its quarry six miles northwest of McCoy. Uranium exploration and wildcat oil drilling were responsible for increased activity in the county.

SAGUACHE (3 & 4)

Superior Mines Corporation has sold controlling interest in the Rawley, Superior and Erie Group of claims to the National Minerals Corporation and increased activity can be expected in the Bonanza area. Plans call for construction of a 100-ton mill and rehabilitation of the Rawley No. 12 Tunnel for a distance of 6,500 feet. In addition to its own ore, the National Minerals Corporation will do custom milling. Uranium activity has again increased in the west end of the county and the Gunnison Mining Company has enlarged installations at the Los Ochos property. In addition to its mining activity this company has secured a permit to construct a mill near Gunnison that will treat ores from the area. The Rawley No. 3, operated by William Costello of Bonanza, continued to operate throughout the year. Ores from the Marine Lode, Wheel of Fortune, Cliff Mine, Jupiter and others will be treated in the new mill constructed by Dan Schmidt & Company.

SAN JUAN (4)

San Juan, formerly one of the great producing counties in Colorado in both base and precious metals, has received encouragement during 1956 for a revival of mining activities. The Treasure Mountain Mining Company, a consolidation of the Gold King, Golden Monarch, Lead Carbonate and Pride of Bonita, started operations during the year which will eventually connect all of the above mines to the lower Gold

King and Sunnyside Tunnels. The Lead Carbonate Mill has been re-conditioned to handle ore from these properties on a test basis until future development warrants a mill of larger capacity. Operations at the Pride of the West Mine and the Pride Mill continued for a part of the year. The Mountain Top Mining & Milling Company started development work on the Dora Mine. The Graysill group of claims, operated by the Vanadium Corporation of America, produced vanadium ore all during the year. Many other smaller properties operated during the summer months and production in San Juan County showed an increase.

SAN MIGUEL (4)

San Miguel County ranked high among the uranium producing counties in the State, with new deposits being opened in the Slick Rock, Spud Patch and upper San Miguel areas. A new up-grading plant is under construction near the old town of Slick Rock, and Union Carbide Nuclear Corporation will accept ores from the area as well as from the company's own mines in the district. Some of the other larger operators in the county are the Dulaney Mining Company, Skidmore Mining Company, the Ortmyer Mining Company, and a host of others that have been in production all during the year. The Idarado Mining Company has consolidated all of its milling activities in the Pandora unit at Telluride. Ore formerly milled at the Red Mountain unit is now being processed on the Telluride side. Idarado's mining development program is nearing completion and its production has added materially to the State's increased volume. The Cataract Uranium Mining & Exploration Company has opened the San Juan Mine at Matterhorn. Utaco Uranium, Inc. opened and started production at the Bradley Mine near Telluride. Mining activities in San Miguel County have a very bright future outlook.

SUMMIT (3)

Activity in Summit County increased during 1956 with the addition of several new discoveries, including fluorspar which was shipped from the Blue Star Mine, and manganese which was shipped from the Juanita manganese mine. Production continued at the Wellington, Boss, Big Four, Burke-Martin Mines, Moskal Leasing Company, Chataqua, Silver Wing and other properties. Considerable uranium prospecting was evident generally over the county. With the starting of the west portal of the Harold D. Roberts Tunnel and the 920-foot shaft, which will create two additional headings on the twenty-three mile tunnel, more men are employed in the county than in many years. This contract for the Roberts Tunnel, held by the Blue River Constructors, will provide activity in the county for several years to come. The loss of the Governor Mill which was completely destroyed by fire during the year, is a setback in mining for this area.

TELLER (2)

Mining activity for 1956 in Teller County showed a steady improvement over 1955, with considerable new prospecting and development work on the lower levels of old producers. This low-level activity was made possible by the extension and connection of the Carlton drainage tunnel with more of the older properties. The Carlton Mill operated steadily throughout the year on an average of more than 11,000 tons per month. Most of the new ore came from the Ajax, Cresson and Strong Mines, with additional tonnage coming from the El Paso, Golden Cycle, and Modoc properties. Development on the 3,000 and 3,100 foot levels of the Ajax showed promising results, and the re-conditioning of the Vindicator Shaft should increase the available ore in the district. The Deadwood Mine on Bull Hill, owned by United Gold Mines and operated by Lloyd Stoner of the Deadwood Leasing Company, had good production for the full year. Uranium activity in the county has not reached the production stage, but prospecting and development continues with some encouraging results. The Moore and Divide Peat Bogs continued production during the year. The Golden Cycle Corporation celebrated its fiftieth year of operation during the year.

WASHINGTON (1)

Several new oil fields were developed in Washington County during the year and production amounting to 7,184,004 barrels came from twenty-six separate fields. A good many new wells were drilled with above-average success which no doubt will keep Washington County high on the list of producers.

WELD (1)

The California Company developed several new wells in the Pierce area in 1956, and their Black Hollow field continued production throughout the year. Several drilling contractors have been active during the past year.

PRODUCTION BY COUNTIES 1956

ADAMS COUNTY

* BRIGHTON

Area 1251 square miles

3 plants and oil wells—93 men

Gold \$ 43,400

Silver 100

Total \$ 43,500

Petroleum 2,935,465

TOTAL PRODUCTION FOR COUNTY \$ 2,978,965

ARAPAHOE COUNTY

* LITTLETON

Area 820 square miles

1 plant, oil wells—20 men

Uranium Restricted

ARCHULETA COUNTY

* PAGOSA SPRINGS

Area 1364 square miles

Oil wells—50 men

Petroleum \$ 417,137

TOTAL PRODUCTION FOR COUNTY \$ 417,137

BENT COUNTY

* LAS ANIMAS

Area 1543 square miles

Oil—20 men

Petroleum \$ 13,153

TOTAL PRODUCTION FOR COUNTY \$ 13,153

BOULDER COUNTY

* BOULDER

Area 758 square miles

29 mines, 13 plants, 8 quarries, and oil—337 men

Gold \$ 7,500

Silver 36,500

Copper 4,200

Lead 24,100

Tungsten 1,060,000

Total \$ 1,132,300

Clay 4,100

Fluorspar 1,733,465

Peat 35,000

Building stone 1,220,000

Crushed stone 22,000

Sand and gravel 289,000

Total \$ 3,303,565

Petroleum 7,645

TOTAL PRODUCTION FOR COUNTY \$ 3,311,210

CHAFFEE COUNTY

* SALIDA

Area 1040 square miles

16 mines, 5 quarries, 3 plants—119 men

Silver \$ 800

Uranium Restricted

Total \$ 800

Calicum phosphate 1,900

Feldspar 351,000

Limestone 1,341,000

Monumental stone 90,000

Gypsum 130,200

Mica 4,200

Total \$ 1,918,300

TOTAL PRODUCTION FOR COUNTY \$ 1,919,100

CLEAR CREEK COUNTY

* GEORGETOWN

Area 395 square miles

46 mines, 8 plants, 2 placers, 1 quarry—285 men

Gold \$ 141,600

Silver 49,900

Copper 27,600

Lead 90,300

Zinc 41,000

Beryl 1,000

TOTAL PRODUCTION FOR COUNTY \$ 351,400

COSTILLA COUNTY

* SAN LUIS

Area 1220 square miles

1 quarry—5 men

Volcanic cinders \$ 64,000

TOTAL PRODUCTION FOR COUNTY \$ 64,000

CUSTER COUNTY

* WESTCLIFFE

Area 738 square miles

2 mines, 1 quarry—14 men

Gold \$ 2,900

Silver 1,200

Copper 4,000

Lead 1,500

Total \$ 9,600

Perlite 725,270

TOTAL PRODUCTION FOR COUNTY \$ 734,870

DENVER COUNTY

* DENVER

Area 67.1 square miles

3 plants—338 men

Gold \$ 16,695

TOTAL PRODUCTION FOR COUNTY \$ 16,695

DOLORES COUNTY

* DOVE CREEK

Area 1029 square miles

5 mines, 3 plants—148 men

Gold \$ 6,500

Silver 93,500

Copper 8,900

Lead 750,000

Zinc 702,000

Pyrite 150,000

TOTAL PRODUCTION FOR COUNTY \$ 1,710,900

DOUGLAS COUNTY

* CASTLE ROCK

Area 844 square miles

5 quarries—16 men

Clay \$ 80,200

Limestone 2,621

Silica rock 3,100

TOTAL PRODUCTION FOR COUNTY \$ 85,921

EAGLE COUNTY

* EAGLE

Area 1686 square miles

1 mine, 1 plant, 3 quarries—550 men

Gold \$ 321,000

Silver 710,000

Copper 700,000

Lead 1,300,000

Zinc 5,250,000

Pyrite 10,000

Total \$ 8,291,000

Volcanic cinder 15,000

TOTAL PRODUCTION FOR COUNTY \$ 8,306,000

EL PASO COUNTY

* COLORADO SPRINGS

Area 2159 square miles

1 mine, 3 quarries—95 men

Clay \$ 151,100

Limestone 186,000

Sand and gravel 1,840,000

Building stone 300,000

TOTAL PRODUCTION FOR COUNTY \$ 2,477,100

FREMONT COUNTY

* CANON CITY

Area 1562 square miles

4 mines, 2 plants, 12 quarries, oil—267 men

Silver	\$ 20
Copper	1,600
Beryl	25,000
Tantalum	300
Uranium	Restricted

Total	\$ 26,920
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Clay	47,600
Cement & Plaster	8,850,000
Dolomite	343,927
Feldspar	14,000
Gypsum	140,000
Limestone	420,000
Mica	4,300
Monumental stone	100,500
Silica rock	28,100
Terrazzo chips (marble)	23,800
Travertine	11,300

Total	\$ 9,983,527
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Petroleum	80,907
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TOTAL PRODUCTION FOR COUNTY	\$10,091,354
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GARFIELD COUNTY

* GLENWOOD SPRINGS

Area 3000 square miles

1 mine, 2 plants, 2 quarries—336 men

Limestone	\$ 27,900
Marble	47,200

TOTAL PRODUCTION FOR COUNTY	\$ 75,100
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GILPIN COUNTY

* CENTRAL CITY

Area 149 square miles

28 mines, 8 mills, 3 quarries, 2 placers—218 men

Gold	\$ 16,500
Silver	15,900
Copper	4,200
Lead	40,100
Zinc	6,200
Tungsten	450

Total	\$ 83,350
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Peat	10,000
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TOTAL PRODUCTION FOR COUNTY	\$ 93,350
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GRAND COUNTY

* HOT SULPHUR SPRINGS

Area 1869 square miles

1 mine—4 men

Uranium	Restricted
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GUNNISON COUNTY

* GUNNISON

Area 3243 square miles

15 mines, 3 mills, 1 quarry—178 men

Gold	\$ 23,000
Silver	400,900
Copper	485,200
Lead	655,000
Zinc	1,200,000
Beryl	10,000
Lepidolite	5,000
Tungsten	310

Total \$ 2,779,410

Mica 2,600

Columbium-Tantalum 500

Building marble, Crushed 10,032

Total \$ 13,132

TOTAL PRODUCTION FOR COUNTY \$ 2,792,542

HINSDALE COUNTY

* LAKE CITY

Area 1062 square miles

4 mines—12 men

Gold	\$ 100
Silver	300
Lead	400
Zinc	300

TOTAL PRODUCTION FOR COUNTY \$ 1,100

JACKSON COUNTY

* WALDEN

Area 1628 square miles

4 mines, 1 plant, 1 quarry, oil—198 men

Fluorspar \$ 1,606,850

Total \$ 1,606,850

Petroleum 1,987,335

TOTAL PRODUCTION FOR COUNTY \$ 3,594,185

JEFFERSON COUNTY

* GOLDEN

Area 791 square miles

17 mines, 7 plants, 14 quarries, oil—217 men

Gold \$ 12,200

Silver 100

Beryl 2,000

Uranium Restricted

Total \$ 14,300

Clay 535,600

Feldspar 30,200

Sand and gravel 3,700,000

Mica 3,200

Total \$ 4,269,000

Petroleum 7,769

TOTAL PRODUCTION FOR COUNTY \$ 4,291,069

LAKE COUNTY

* LEADVILLE

Area 384 square miles

16 mines, 8 plants, 1 quarry—2508 men

Gold	\$ 180,000
Silver	85,200
Copper	100,700
Lead	515,000
Zinc	545,000
Tin	20,000
Molybdenum	44,237,000
Tungsten	3,561,000
Pyrite	240,000

Total	\$49,483,900
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Peat	5,100
Silica rock	4,000
Sand and gravel	134,000

Total	\$ 143,100
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TOTAL PRODUCTION FOR COUNTY	\$49,627,000
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LA PLATA COUNTY

* DURANGO

Area 1691 square miles

6 mines, 2 plants, oil—420 men

Gold	\$ 17,700
Silver	1,500

Total	\$ 19,200
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Petroleum	27,443
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TOTAL PRODUCTION FOR COUNTY	\$ 46,643
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LARIMER COUNTY

* FORT COLLINS

Area 2640 square miles

6 mines, 3 plants, 8 quarries, oil—237 men

Gypsum	\$ 108,500
Limestone	204,200
Cement	4,300,000
Sand and gravel	106,000
Building stone	454,000
Beryllium	5,000
Uranium	Restricted
Mica	2,100

Total	\$ 5,179,800
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Petroleum	499,700
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TOTAL PRODUCTION FOR COUNTY	\$ 5,679,500
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LAS ANIMAS COUNTY

* TRINIDAD

Area 4798 square miles

2 quarries—48 men

Alabaster \$ 6,100

Clay 390,180

TOTAL PRODUCTION FOR COUNTY \$ 396,280

LOGAN COUNTY

* STERLING

Area 1849 square miles

Oil—600 men

Petroleum \$21,921,473

TOTAL PRODUCTION FOR COUNTY \$21,921,473

MESA COUNTY

* GRAND JUNCTION

Area 3334 square miles

66 mines, 2 plants, oil—1696 men

Sand and gravel \$ 131,000

Uranium-vanadium Restricted

TOTAL PRODUCTION FOR COUNTY \$ 131,000

MINERAL COUNTY

* CREEDE

Area 923 square miles

6 mines, 1 plant, 1 quarry—117 men

Gold \$ 52,000

Silver 175,000

Copper 16,800

Lead 450,000

Zinc 350,000

TOTAL PRODUCTION FOR COUNTY \$ 1,043,800

MOFFAT COUNTY

* CRAIG

Area 4761 square miles

4 mines, oil—317 men

Uranium-vanadium Restricted

Petroleum \$ 3,516,641

TOTAL PRODUCTION FOR COUNTY \$ 3,516,641

MONTEZUMA COUNTY

* CORTEZ

Area 2097 square miles

4 mines, 2 plants, oil—69 men

Petroleum \$ 15,614

Dry ice 77,000

TOTAL PRODUCTION FOR COUNTY \$ 92,614

MONTROSE COUNTY

* MONTROSE

Area 2240 square miles
140 mines, 2 mills — 1618 men
Uranium-Vanadium

Restricted

MORGAN COUNTY

* FORT MORGAN

Area 1300 square miles
Oil — 700 men

Petroleum \$ 20,273,381

TOTAL PRODUCTION FOR COUNTY \$ 20,273,381

OURAY COUNTY

* OURAY

Area 540 square miles
10 mines, 4 mills — 374 men

Gold \$ 120,000

Silver 50,100

Copper 150,200

Lead 251,100

Zinc 140,200

TOTAL PRODUCTION FOR COUNTY \$ 711,600

PARK COUNTY

* FAIRPLAY

Area 2178 square miles
8 mines, 2 quarries — 212 men

Gold \$ 1,000

Silver 700

Lead 3,100

Copper 3,000

TOTAL PRODUCTION FOR COUNTY \$ 7,800

PITKIN COUNTY

* ASPEN

Area 975 square miles
2 mines — 13 men

Silver \$ 120

Lead 310

TOTAL PRODUCTION FOR COUNTY \$ 430

PUEBLO COUNTY

* PUEBLO

Area 2414 square miles
1 plant, 7 quarries — 121 men

Silver \$ 5

Copper 1,000

Total \$ 1,005

Clay 200,600

Sand and gravel 1,090,000

Mica 61,020

Total \$ 1,351,620

TOTAL PRODUCTION FOR COUNTY \$ 1,352,625

RIO BLANCO COUNTY

* MEEKER

Area 3264 square miles

8 mines, oil — 533 men

Uranium Restricted

Petroleum \$84,207,244

TOTAL PRODUCTION FOR COUNTY \$84,207,244

RIO GRANDE COUNTY

* DEL NORTE

Area 916 square miles

1 mine — 10 men

Gold \$ 1,750

TOTAL PRODUCTION FOR COUNTY \$ 1,750

ROUTT COUNTY

* STEAMBOAT SPRINGS

Area 2331 square miles

1 mine, 1 quarry, oil — 57 men

Uranium Restricted

Petroleum \$ 179,291

TOTAL PRODUCTION FOR COUNTY \$ 179,291

SAGUACHE COUNTY

* SAGUACHE

Area 3146 square miles

13 mines, 1 mill, 1 quarry — 125 men

Gold \$ 1,000

Silver 1,500

Copper 1,200

Lead 16,400

Zinc 7,450

Total \$ 27,550

Turquoise 33,413

Uranium Restricted

Total \$ 33,413

TOTAL PRODUCTION FOR COUNTY \$ 60,963

SAN JUAN COUNTY

* SILVERTON

Area 392 square miles

19 mines, 2 mills — 150 men

Gold \$ 18,600

Silver 31,300

Copper 28,900

Lead 146,000

Zinc 56,700

Tungsten 1,900

Uranium Restricted

TOTAL PRODUCTION FOR COUNTY \$ 283,400

SAN MIGUEL COUNTY

* TELLURIDE

Area 1284 square miles

81 mines, 3 mills, oil — 670 men

Gold	\$ 780,000
Silver	651,000
Copper	2,400,000
Lead	2,290,000
Zinc	3,500,000
Bog iron	17,060
Uranium	Restricted

TOTAL PRODUCTION FOR COUNTY \$ 9,638,060

SUMMIT COUNTY

* BRECKENRIDGE

Area 616 square miles

14 mines, 3 mills, 2 placers — 354 men

Gold	\$ 9,000
Silver	18,200
Copper	6,000
Lead	169,000
Zinc	169,900
Manganese	4,100

TOTAL PRODUCTION FOR COUNTY \$ 374,200

TELLER COUNTY

* CRIPPLE CREEK

Area 555 square miles

9 mines, 1 mill, 4 quarries — 213 men

Gold	\$ 1,860,000
Silver	6,000

Total \$ 1,866,000

Monumental stone 12,000

Peat 6,200

Total \$ 18,200

TOTAL PRODUCTION FOR COUNTY \$ 1,884,200

WASHINGTON COUNTY

* AKRON

Area 2530 square miles

Oil — 200 men

Petroleum \$19,756,011

TOTAL PRODUCTION FOR COUNTY \$19,756,011

WELD COUNTY

* GREELEY

Area 4033 square miles

Oil, 2 plants — 120 men

Petroleum \$ 5,019,589

TOTAL PRODUCTION FOR COUNTY \$ 5,019,589

*County Seats

SAFETY AWARDS

The following list of companies, all of whom employed ten or more men, worked the entire year of 1956 without a lost-time accident and were the recipients of Colorado Bureau of Mines Safety Awards:

Barnes Brothers, Nucla
Barnhisel Construction Company, Great Lakes Carbon Quarries, Westcliffe
Colonna & Company, Canon City
Denver Fire Clay Company, Denver
General Chemical Division, Allied Chemical & Dye Corporation, Denver
General Chemical Division, Allied Chemical & Dye Corporation, Jamestown
General Chemical Division, Allied Chemical & Dye Corporation, Valmont
Ralph D. Hickman, Gateway (Top award)
E. T. Holderman, Uravan
Ideal Cement Company, Fort Collins
Ideal Cement Company, Portland
International Minerals & Chemical Company, Denver
International Minerals & Chemical Company, Pueblo
Javernick and Vorgeson, Uravan
New Jersey Zinc Company, Empire Zinc Division, Canon City
The Noble Drilling Company, Casper, Wyoming
Oil Group Limited, Rangely
George W. Parfet Estate, Golden
Phillips Petroleum Company, Rangely
Sharples Oil Company, Rangely
Standard Fire Brick Company, Pueblo
Sterling Sand and Gravel Company, Fort Collins
The Texas Company, Craig
Union Carbide Nuclear Company, Mining Division, Grand Junction
United States Atomic Energy Commission, Denver area
National Lead Company, AEC Contractors, Grand Junction
Lucius Pitkin Incorporated, AEC Contractors, Grand Junction
United States Gypsum Company, Loveland

ACCIDENTS

During the year 1956 there were fourteen fatal accidents in the mineral industry, an increase of two over the year 1955. Ten of these accidents occurred underground, there was one fatal in a milling plant and one in a smelter and two occurred at oil wells. Falling rock caused four of the underground fatalities and improper blasting procedure was responsible for three more. One underground fatal was caused by falling rock knocking a man down a raise and crushing him, one victim was suffocated when ore on which he was standing caved under him, and one fatal was caused by the worker being crushed between cars in an incline shaft.

The mill accident was caused by electrocution and the smelter accident by a furnace explosion. The oil well accident was the result of a catline entanglement and in the other the victim's head was crushed by the dropping of a drill stem. For the first time in several years there was a decrease in oil well fatalities.

A total of 36,921,400 man-hours was worked in the industry in 1956 with a total of 1,339 lost-time injuries which resulted in 94,994 days lost from these accidents. The Frequency Rate was 36.2 or 1.9 higher than 1955 and the Severity Rate was 2572 or 73 higher than the previous year. These increases were brought about by two more fatal accidents during 1956 and an increase of accidents among new men in the mineral industry who had no prior experience in mining.

The fatal accident rate per 1,000 men employed in mining was 0.99 and the fatal accident rate per 1,000 men employed in the oil industry was 0.60. There were 1,282 men employed per fatal accident in mines, mills, quarries, etc. and 15.9 men employed per lost-time accident. One fatal accident occurred for every 1,541,666 tons of ore mined and for each accident 19,241 tons were produced. In the oil industry 1,656 men were employed for each fatality and 8.7 men were employed per injury. There was one fatal accident for every 29,248,327 barrels of oil produced and one lost-time accident for every 155,164 barrels of oil production.

With continued cooperation between operators in the mineral industry and the Bureau of Mines every possible effort to reduce the above figures is being made.

SUMMARY OF ACCIDENTS—1956

	Total Man-Hours	Lost-Time Injuries	Number of Days Lost	Frequency Rate Per One Million Man-Hours	Severity Rate Per One Million Man-Hours
Mines, Surface	3,950,400	104	827	26.3	234.
Mines, Underground	10,363,200	644	6,583	62.1	6,328.
Quarries, Clay Pits	1,288,800	30	123	23.2	95.
Mills, Smelters, Plants	10,828,800	146	13,542	13.4	1,250.
State & Federal Projects	2,558,400	38	193	14.8	75.
Oil Wells	7,948,800	377	14,726	47.4	1,847
Totals	36,921,400	1,339	94,994	36.2	2,572

This table includes the loss of 84,000 days due to 14 fatalities and 7,340 days due to 26 permanent disabilities.

Frequency Rate =	Number of Injuries x 1,000,000	Total Time Charges in Days x 1,000,000
Frequency Rate =	Number of Man-Hours of Exposure	Number of Man-Hours of Exposure

FATAL ACCIDENTS—1956

Date	Name	Employed By	Cause of Death
2- 2-56	Kenneth M. Ackerson	Shattuck Denn Mining Company	Crushed by falling rock
4- 2-56	Howard W. Fridley	Idarado Mining Company (Pandora)	Crushed by falling rock
4-18-56	Richard Howard Lucero	Empire Zinc Company (Gilman)	Crushed between cars in incline
4-18-56	Albert M. Hottel	Idarado Mining Company (Red Mountain)	Improper blasting procedure
4-18-56	Lester R. Cargile	Idarado Mining Company (Red Mountain)	Improper blasting procedure
5-30-56	Andre Martel	Reynolds Mining Corporation	Knocked down raise and crushed by falling rock
6-27-56	Denver P. Davis	Idarado Mining Company (Red Mountain)	Suffocated when caught in stope ore cave
6-29-56	Willis E. Linn	Climax Molybdenum Company	Crushed by falling rock
7-21-56	Richard G. Phillips	Donald Young, Union Carbide Nuclear Corp.	Improper blasting procedure
11- 7-56	Eddie Foster	M. R. Watters	Crushed by falling rock

MILLS, SMELTERS, PLANTS

Vanadium Corporation of America	Electrocution, improper grounding
American Smelting & Refining Company (Arkansas Valley Plant)	Furnace explosion, burns and fractures

OIL WELLS

H. B. Lynn Drilling Company	Caught between drill collars, fracture
Alex Beltramo, Jr.	Caught in cat line, pulled into cat head

AGENCY CAUSING ACCIDENT

	Fatals	Temporary Injuries Loss of one day or more
MINES, SURFACE		
Bars - Bins - Chutes		1
Cars - Motors - Vehicles		15
Chemicals		1
Drills - Drilling Equipment		14
Explosives - Loading, Firing		1
Falls - Floor - Ice - Snow		12
Falling or Flying Objects		1
Flames - Fire - Hot Substances		4
Hoists - Hoisting Apparatus		1
Ladders - Manways		1
Machinery - Tools		16
Materials		1
Metal Objects		17
Platforms - Staging - Scaffolds		3
Premature or Delayed Blasts		1
Rock - Ore - Ground		7
Screens - Tracks		1
Tanks - Atmosphere		1
Timber - Lumber - Poles		6
Total		104

QUARRIES

Cars - Motors - Vehicles		1
Chains - Gears - Sprockets		1
Belts - Conveyors - Pulleys		1
Chemicals		1
Drills - Drilling Equipment		2
Electricity - Elec. Equipment		1
Machinery - Tools		3
Metal Objects		2
Rock - Ore - Ground		17
Timber - Lumber - Poles		1
Total		30

MINES, UNDERGROUND

Bars - Bins - Chutes		11
Cables - Hose - Ropes		28
Cars - Motors - Vehicles	2	114
Chains - Gears - Sprockets		6
Belts - Conveyors - Pulleys		3
Containers		12
Chemicals		1
Drills - Drilling Equipment		23
Dust and Particles		2
Explosives - Loading, Firing		2
Electricity - Elec. Equipment		1
Falls - Floor - Ice - Snow		49

AGENCY CAUSING ACCIDENT—Continued

	Fatals	Temporary Injuries Loss of one day or more	
Flames - Fire - Hot Substances		2	
Hoists - Hoisting Apparatus		2	
Ladders - Manways		5	
Machinery - Tools		69	
Materials		4	
Metal Objects		64	
Platforms - Staging - Scaffolds		2	
Premature or Delayed Blasts	2	5	
Rock - Ore - Ground	5	175	
Screens - Tracks		12	
Shovels, Power		1	
Tanks - Atmosphere	1	6	
Timber - Lumber - Poles		32	
Unclassified - Insufficient Data		3	
	<hr/>	<hr/>	<hr/>
Totals	10	634	644

MILLS, SMELTERS, PLANTS, ETC.

Bars - Bins - Chutes		3	
Cables - Hose - Ropes		4	
Cars - Motors - Vehicles	1	6	
Belts - Conveyors - Pulleys		8	
Containers		8	
Chemicals		5	
Dust and Particles		4	
Electricity - Elec. Equipment		7	
Falls - Floor - Ice - Snow		16	
Flames - Fire - Hot Substances	1	5	
Hoists - Hoisting Apparatus		1	
Ladders - Manways		2	
Machinery - Tools		18	
Materials		7	
Metal Objects		24	
Platforms - Staging - Scaffolds		1	
Rock - Ore - Ground		13	
Screens - Tracks		1	
Shovels, Power		1	
Tanks - Atmosphere		3	
Timber - Lumber - Poles		6	
Unclassified - Insufficient Data		1	
	<hr/>	<hr/>	<hr/>
Totals	2	144	146

AGENCY CAUSING ACCIDENT—Continued

	Fatals	Temporary Injuries Loss of one day or more
STATE AND FEDERAL PROJECTS		
Cables - Hose - Ropes		3
Cars - Motors - Vehicles		3
Drills - Drilling Equipment		1
Falls - Floor - Ice - Snow		3
Machinery - Tools		3
Materials		1
Metal Objects		4
Platforms		2
Rock - Ore - Ground		10
Screens - Tracks		1
Tanks - Atmosphere		5
Timber - Lumber - Poles		2
Total		38

OIL WELLS

Bars - Bins - Chutes		3	
Cables - Hose - Ropes		16	
Cars - Motors - Vehicles		12	
Chains - Gears - Sprockets		12	
Belts - Conveyors - Pulleys		1	
Containers		5	
Chemicals		2	
Derricks - Headframes		1	
Drills - Drilling Equipment	2	81	
Dust and Particles		2	
Explosives - Transportation		2	
Explosives - Loading, Firing		1	
Electricity - Elec. Equipment		3	
Falls - Floor - Ice - Snow		46	
Flames - Fire - Hot Substances		27	
Ladders - Manways		1	
Machinery - Tools		34	
Metal Objects		85	
Platforms - Staging - Scaffolds		3	
Timber - Lumber - Poles		2	
Tongs		34	
Unclassified - Insufficient Data		2	
Totals	2	375	377

TYPE, NATURE AND SITE OF INJURY

	Fatales	Temporary Injuries Loss of one day or more
MINES, SURFACE		
TYPE OF INJURY		
Burns - Shock		12
Caught in or between		8
Fall on same level		3
Fall on different level		6
Handling		27
Inhalation - Suffocation		1
Striking against - Struck by		42
Slip - Stepping on		10
Total		109

NATURE OF INJURY

Foreign Bodies	7
Cuts - Bruises - Lacerations - Punctures	44
Strains - Sprains - Dislocations	28
Hernia - Respiratory	3
Fractures	24
Burns - Scalds - Shock	14
Nature Unknown	1
Total	121

SITE OF INJURY

Eye	11
Head - Face - Neck	13
Trunk	25
Upper Extremities	37
Lower Extremities	33
Insufficient Data	2
Total	121

MINES, UNDERGROUND

TYPE OF INJURY

Burns - Shock		7
Caught in or between		100
Fall on same level		23
Fall on different level		21
Handling		110
Inhalation - Suffocation	1	10
Striking against - Struck by	9	293
Slip - Stepping on		62
Unclassified - Insufficient Data		8
Totals	10	634

TYPE, NATURE AND SITE OF INJURY—Continued

	Fatals	Temporary Injuries Loss of one day or more	
MINES, UNDERGROUND—Cont.			
NATURE OF INJURY			
Foreign Bodies		39	
Cuts - Bruises - Lacerations - Punctures		345	
Strains - Sprains - Dislocations		161	
Herna - Respiratory	1	12	
Fractures	9	100	
Amputation		8	
Burns - Scalds - Shock		10	
Occupational Diseases		10	
Nature Unknown		16	
Totals	10	701	711

SITE OF INJURY

Eye		49	
Head - Face - Neck	1	53	
Trunk		150	
Upper Extremities		198	
Lower Extremities		219	
General	9	7	
Insufficient Data		3	
Totals	10	679	689

QUARRIES**TYPE OF INJURY**

Burns - Shock	1	
Caught in or between	5	
Handling	10	
Striking against - Struck by	11	
Slip - Stepping on	3	
Total		30

NATURE OF INJURY

Foreign Bodies	2	
Cuts - Bruises - Lacerations - Punctures	9	
Strains - Sprains - Dislocations	14	
Fractures	5	
Burns - Scalds - Shock	1	
Total		31

TYPE, NATURE AND SITE OF INJURY—Continued

SITE OF INJURY	Fatales	Temporary Injuries	
		Loss of one day or more	
Eye		3	
Head - Face - Neck		2	
Trunk		9	
Upper Extremities		9	
Lower Extremities		11	
Total		34	

MILLS, SMELTERS, PLANTS, ETC.**TYPE OF INJURY**

Burns - Shock	2	14	
Caught in or between		20	
Fall on same level		4	
Fall on different level		9	
Handling		40	
Inhalation - Suffocation		5	
Striking against - Struck by		34	
Slip - Stepping on		18	
Totals	2	144	146

NATURE OF INJURY

Foreign Bodies		13	
Cuts - Bruises - Lacerations - Punctures		47	
Strains - Sprains - Dislocations		47	
Hernia - Respiratory		5	
Fractures	1	15	
Amputation		3	
Burns - Scalds - Shock	1	17	
Occupational Diseases		3	
Nature Unknown		2	
Totals	2	152	154

SITE OF INJURY

Eye		22	
Head - Face - Neck	1	8	
Trunk		38	
Upper Extremities		32	
Lower Extremities		48	
General	1	3	
Totals	2	151	153

TYPE, NATURE AND SITE OF INJURY—Continued

STATE AND FEDERAL PROJECTS TYPE OF INJURY	Fatales	Temporary Injuries	
		Loss of one day or more	
Caught in or between			4
Fall on same level			1
Fall on different level			3
Handling			5
Inhalation - Suffocation			5
Striking against - Struck by			17
Slip - Stepping on			4
Total			39

NATURE OF INJURY

Foreign Bodies	12
Cuts - Bruises - Lacerations - Punctiures	21
Strains - Sprains - Dislocations	7
Fractures	5
Total	45

SITE OF INJURY

Head - Face - Neck	6
Trunk	11
Upper Extremities	5
Lower Extremities	14
General	5
Total	41

OIL WELLS

TYPE OF INJURY

Burns - Shock		37	
Caught in or between	1	75	
Fall on same level		10	
Fall on different level		21	
Handling		35	
Inhalation - Suffocation		2	
Striking against - Struck by	1	153	
Slip - Stepping on		39	
Unclassified - Insufficient Data		3	
Totals	2	375	377

TYPE, NATURE AND SITE OF INJURY—Continued

NATURE OF INJURY	Fatals	Temporary Injuries Loss of one day or more	
Foreign Bodies		7	
Cuts - Bruises - Lacerations			
Punctures		163	
Strains - Sprains - Dislocations		60	
Hernia - Respiratory		2	
Fractures	1	103	
Amputation	1	8	
Burns - Scalds - Shock		31	
Nature Unknown		17	
	<hr/>	<hr/>	<hr/>
Totals	2	391	393

SITE OF INJURY

Eye		13	
Head - Face - Neck		52	
Trunk	1	70	
Upper Extremities		134	
Lower Extremities		122	
General	1		
Insufficient Data		3	
	<hr/>	<hr/>	<hr/>
Totals	2	394	396

MEN EMPLOYED—1956

The number of men employed in 1956 by the mineral industry again showed an increase over previous years as indicated by the following tables.

	Mines		Mills, Plants, Smelters		Quarries, Clay Pits		Placers		Pro- jects	Oil Wells
	No.	Men	No.	Men	No.	Men	No.	Men	Men	Men
District 1 ..	126	574	48	621	34	203	4	7	290	1850
District 2 ..	24	264	4	87	36	250	1	5	270	287
District 3 ..	90	2468	20	1520	15	81	3	12	280	850
District 4 ..	354	2624	24	2284	1	3	2	3	226	325
TOTALS	594	5930	96	4512	86	537	10	27	1066	3312

TOTAL MEN EMPLOYED

	Underground	Surface	Oil Wells	Totals
District 1.....	399	1296	1850	3345
District 2.....	218	658	287	1163
District 3.....	1863	2498	850	5211
District 4.....	1901	3239	325	5465
TOTALS	4381	7691	3312	15,384

INSPECTIONS

The number of regular mine inspections during 1956 shows a large increase over 1955. This is due to an increase in the number of properties which were in operation, better access roads into mining areas, and more efficient coverage by our four regular Inspectors and our two Deputies. Every known property was inspected at least once during the year and many were inspected several times, or as required and time permitted. Because of the many and scattered mining and oil well properties it is necessary for the inspectors to concentrate their efforts where they are most needed.

1956 INSPECTIONS

MADE BY

1956	District 1 Blake	District 2 Theobald	District 3 Doyle & Keating	District 4 Ray & Pakka	Total
January	41	0	23	49	113
February	15	15	18	33	81
March	19	11	18	41	89
April	17	0	39	40	96
May	14	32	21	51	118
June	38	8	28	26	100
July	28	6	28	34	96
August	32	7	35	38	112
September	16	4	13	23	56
October	26	0	31	51	108
November	19	2	33	38	92
December	17	4	26	23	70
Totals.....	282	89	313	447	1131

	Mines	Quarries & Clay Mines	Mills & Smelters	Placers	Projects	Oil Wells	Total
District 1	130	28	42	1	15	66	282
District 2	37	24	10	1	2	15	89
District 3	143	21	40	1	12	96	313
District 4	366	0	32	0	14	35	447
Totals.....	676	73	124	3	43	212	1131

INFORMATION REPORTS

Information Reports were made on practically all property which was actively engaged in producing, developing and prospecting in the State during 1956. Many supplemental Information Reports were made on special investigations. The format of these reports was changed during the year and is now so composed that identical information is given for all properties. This, we find, places the desired information in our public files and gives the general public a more comprehensive picture of mining activities in the State.

1956 INFORMATION REPORTS

MADE BY

1956	District 1 Blake	District 2 Theobald	District 3 Doyle & Keating	District 4 Ray & Pakka	Total
January	23	0	11	8	42
February	0	0	6	18	24
March	1	1	6	12	20
April	14	0	9	18	41
May	22	0	7	38	67
June	12	5	9	17	43
July	16	32	20	10	78
August	10	12	18	36	76
September	12	3	11	25	51
October	7	0	7	43	57
November	1	11	7	18	37
December	39	6	2	132	179
Totals	157	70	113	375	715

	Mines	Quarries & Clay Mines	Mills & Smelters	Placers	Projects	Oil Wells	Total
District 1	77	19	20	3	5	33	157
District 2	30	33	4	1	2	0	70
District 3	59	11	16	1	9	18	113
District 4	336	1	11	0	18	9	375
Totals	502	64	51	5	34	60	715

TOTAL INSPECTIONS, PARTIAL INSPECTIONS AND INFORMATION DATA

District 1	District 2	District 3	District 4	Total
439	159	426	822	1846

LIST OF OPERATING MINES IN VARIOUS COUNTIES IN COLORADO—1956

OPERATING MINES IN BOULDER COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
April Fool-Good	Friday	Shiprock Industries, Inc.	Box 461, Boulder	Tungsten
Black Hope No. 1	Jamestown	Black Hope Uranium Corp.	863 S. Dudley, Lakewood	Development
Blue Jay	Sugar Loaf	Walter N. Evans & Assoc.	303 Ash Ave., Boulder	Development
Buffalo No. 1	Jamestown	Mountain States Uranium Corp.	7340 W. Colfax, Lakewood	Development
Burlington	Jamestown	General Chemical Division, Allied		
		Chemical & Dye Corp.	Box 228, Boulder	Fluorspar
Caribou	Caribou	Nederland Mines, Inc.	1406 Pearl St., Boulder	Gold, Silver, Lead, Uranium
Cold Spring	Nederland	Cold Spring Tungsten, Inc.	Box 7, Nederland	Tungsten
Cold Spring No. 3	Nederland	Cold Spring Tungsten, Inc.	Box 7, Nederland	Tungsten
Comstock	Caribou	Durable Construction Co., Inc.	Box 589, Boulder	Gold Silver, Lead
Copper King	Gold Hill	Allen B. Williams	c/o Alcoa, 1501 Alcoa Bldg., Pittsburgh, Pa.	Nickel, Cobalt, Copper
Crow No. 36	Nederland	Cobb & Weldon	401 Pine St., Boulder	Tungsten
Dozer	Nederland	Reynolds Minerals Corp.	Box 16, Lawson	Tungsten
Emmett	Jamestown	H. M. Williamson & Son	Box 431, Boulder	Fluorspar
Eureka	Boulder Canyon	Eureka Tungsten, Inc.	946 Portland St., Boulder	Tungsten
Fair Day Lode	Jamestown	LaSalle Mining Co.	First Nat'l Bank Bldg., Denver 2	Tungsten
Golden Queene	Ward	Golden Tungsten Consolidated	Box 144, Ward	Uranium, Vanadium
Hoosier	Nederland	Johnson Bros. & Prime	Box 336, Nederland	Tungsten, Gold, Silver, Copper
Jimtown Mining Co.	Jamestown	C. H. Clark & H. F. Busley	Jamestown	Tungsten
Lake	Nederland	Scruggs & Wilson	510 Maxwell St., Boulder	Uranium
Long Shot	Nederland	Smith, Ruggs & Hennings	701 Crestline Drive, Boulder	Tungsten
Mountain Goat	Eldora	Frontier Mining Co.	2020 Niagara St., Denver 7	Tungsten
Pennsylvania	Sugarloaf	Prime, Hetzer & Peterson Bros.	Sugarloaf Star Route, Boulder	Uranium, Vanadium
Phillips Extension	Nederland	Johnson Bros. & Prime	Nederland	Tungsten
Piddler	Nederland	Langley & Menger	Box 2, Nederland	Tungsten
Rambler	Nederland	Cowdry & Smith	517 Lincoln Ave., Boulder	Tungsten
Red Spruce	Jamestown	Mountain States Uranium Co.	7340 W. Colfax, Lakewood	Tungsten
Tip Top	Sugarloaf	Traen & Nelson Mining Co.	Box 283, Central City	Development
Town Lot	Nederland	Bishop & McDermott	Nederland	Silver, Lead
Tungsten	Nederland	Tungsten Mining Co., Inc.	420 Pine St., Boulder	Tungsten
White Raven	Ward	White Raven Mining & Milling Co.	Salina Star Route, Boulder	Silver, Lead

OPERATING MINES IN CHAFFEE COUNTY

Be-True	Buena Vista	Gilbert Longpre	Buena Vista	Uranium, Vanadium
Dumprite	Chalk Creek Dist.	G. A. Musgrove	Salida	Silver, Lead
Gold Bug	Turret	George Stiner & Dean Hogg	501 St. Elmo St., Colorado Springs	Development
Josephine Lode	Buena Vista	Josephine Lode & Development Co.	1232 N. Nevada St., Colorado Springs	Lead, Uranium, Cobalt, Uranium Development
K. O. (Burlington)	Bonanza	Ole Olsen	Bonanza Route, Villa Grove	Gold, Silver, Lead
Lilly	Taylor Mountain	Scott Lackland	Box 283, Salida	Uranium, Vanadium
Morgan Ranch	Salida	Continental Mineral Resources, Inc.	400 S. State St., Chicago 5, Ill.	Fluorspar
Nellie B	Peek-A-Boo Gulch	Woodlawn Mining Co.	Buena Vista	Gold, Silver, Copper
Pink Lady	McGee Gulch	Pink Lady Mining Co.	Box 294, Buena Vista	Development
Shirley No. 3	Long's Gulch	Kaess Mining Co.	W. Grand Ave., Salida	Gold, Silver, Copper
Stoner King	Trout Creek Pass	Trout Creek Mining Co.	Box 86, Buena Vista	Development
Stonewall	St. Elmo	Randall Eaton	Buena Vista	Silver, Lead, Zinc
Sunnyside	Taylor Gulch	Trout Creek Mining Co.	Box 86, Buena Vista	Development
Tilden	Baldwin Gulch	McCauley Mining Co.	Buena Vista	Gold, Silver, Lead
Tom Collins	Buena Vista	A. B. Calloway & Carl Harvey	Box 910, Salida	Gold, Silver, Lead

OPERATING MINES IN CLEAR CREEK COUNTY

Alma Lincoln	Spanish Bar	Ray E. Barber	Box 781, Idaho Springs	Tourist
Anon	Spanish Bar	R. Slaus & Associates	442 S. Xavier St., Denver 19	Uranium, Gold, Silver
Ashland	Virginia Canyon	H. & H. Exploration Co.	Box 172, Central City	Uranium, Gold, Silver, Lead
Bald Eagle	Virginia Canyon	Bald Eagle Mining Co.	Idaho Springs	Gold, Silver, Lead
Blue Bell	Silver Plume	Blue Bell Mines Co.	Box 201, Idaho Springs	Silver, Lead
Calvin	Virginia Canyon	Acme Novelty Co.	Box 71, Idaho Springs	Uranium, Gold, Silver, Lead
Columbian Chief	Lawson	Princess of India Mining Co.	Box 695, Idaho Springs	Gold, Silver, Lead
Comstock	Lawson	Universal Oil & Uranium Co.	7900 W. Colfax, Lakewood	Gold, Silver, Lead
Cosmopolitan	Idaho Springs	Komo Mines	Idaho Springs	Gold, Silver, Lead, Zinc
Crazy Girl	Spring Gulch	Jenkins Supply & Drilling Co.	1009 Concord Bldg., Oklahoma City, Okla.	Lead
Dixie	Ute Creek	LeRoy Giles & Co.	Idaho Springs	Gold, Silver, Lead
Donaldson	Freeland Gulch	Donaldson Mining Co.	Idaho Springs	Gold, Silver, Copper
Edgar	Idaho Springs	Colorado School of Mines	Golden	Experimental
Forge Hill	Virginia Canyon	Forge Hill Mines, Inc.	Box 324, Idaho Springs	Gold, Silver, Lead, Copper
Franklin	Gilson Gulch	Franklin Silver Age Mining Co.	Box 292, Idaho Springs	Gold, Silver, Lead
Freeland Extension	Idaho Springs	E. A. & Frank Lear	Box 121, Idaho Springs	Silver, Lead, Copper
Gem	Gilson Gulch	G. B. L. Company	812 Emporia St., Denver 8	Uranium
Good Luck	Virginia Canyon	Mike Tancher	Idaho Springs	Gold, Silver, Lead
Grizzly	Bakerville	Greater Minerals Corp.	Georgetown	Gold, Silver, Zinc
Hidden Treasure	Empire	Hidden Treasure Mining Co.	Box 456, Empire	Gold, Lead, Zinc
Highlander	Virginia Canyon	Dr. Fred Metz	Box 474, Idaho Springs	Rare Earth, Uranium, Lead
Idaho Bride	Idaho Springs	Komo Mines Co.	Box 283, Idaho Springs	Gold, Silver, Lead
Illinois	Silver Plume	Lisbon Valley Uranium Co.	501 Kittredge Bldg., Denver 2	Silver, Lead, Zinc
Jo Reynolds	Lawson	Reynolds Minerals Corp.	Box 16, Lawson	Gold, Silver, Lead
Johnny Bull	Silver Plume	Consolidated Gold & Uranium Corp.	309 Columbine St., Denver 6	Silver, Lead, Zinc
Keast Tunnel (Donaldson No. 6)	Mouth of Trail Creek	Gilpin Uranium, Inc.	Idaho Springs	Gold, Silver, Lead, Zinc, Uranium
King Cyrus	Idaho Springs	Lyle B. McNulty	7021 Utica St., Westminster	Tourist
Kitty Clyde	Spring Gulch	Universal Oil & Uranium Co.	7900 W. Colfax, Lakewood	Gold, Silver, Lead, Copper
Last Chance	Red Elephant Mtn.	McCrea Mines	Lawson	Development
Lone Star No. 6	Idaho Springs	Lone Star Mining Co.	Box 6, Idaho Springs	Tourist
MacDonald Property	Empire	Universal Oil & Uranium Corp.	7900 W. Colfax, Lakewood	Gold, Lead, Copper
Nabob	Lawson	Denver Nabob Mining Co., Inc.	Mile High Center, Denver 2	Silver, Lead
New Century	Idaho Springs	New Century Mining Co.	4920 Zuni St., Denver 11	Gold, Silver, Lead
Omaha (Nevada Tunnel)	Empire	Empire Ridge Gold Corp.	118 E. 10th Ave., Denver 3	Zinc
Park Side	Virginia Canyon	Garrick & Allison	Central City	Gold, Silver, Lead, Copper
Payne Tunnel	Empire	Empire Ridge Gold Corp.	Box 174, Empire	Gold
Red Elephant	Lawson	Universal Oil & Uranium Corp.	7900 W. Colfax, Lakewood	Gold, Silver, Lead
St. Louis Lode	Virginia Canyon	St. Louis Lode Mines	Box 23, Lawson	Uranium
Senator	Dumont	C. E. Fetherhoff & R. M. Shatto	Box 982, Idaho Springs	Gold, Silver, Lead
Silver Cloud	Silver Plume	Andrew Riebel	Silver Plume	Silver, Lead, Zinc, Copper
Urad Mine & Mill	Empire	Molybdenum Corp. of America	Empire	Molybdenum
Zero	Silver Plume	Lisbon Valley Uranium Co.	501 Kittredge Bldg., Denver 2	Silver, Lead, Zinc

OPERATING MINES IN CONEJOS COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Mammoth	Platoro	Robert W. Hume	P.O. Box 4295, Santa Fe, N.M.	Gold, Lead, Zinc

OPERATING MINES IN CUSTER COUNTY

Navajo Lode	Westcliffe	John Banks	Westcliffe	Copper
Tomboy	Ophir Mining District	Charles & Lyman Akin	Wetmore	Gold

OPERATING MINES IN DELTA COUNTY

Doty	Delta	Atlas Mining & Mfg. Co.	414 Main St., Delta	Sulphur
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OPERATING MINES IN DOLORES COUNTY

Blaine Tunnel	Rico	Rico Argentine Mining Co.	Rico	Silver, Lead, Zinc
Eagle Tunnel	Rico	E. J. Lane	Box 578, Wilcox, Arizona	Gold, Silver, Lead, Zinc
Mountain Springs	Rico	Rico Argentine Mining Co.	Rico	Silver, Lead, Zinc, Iron
St. Louis Claim	Rico	Jones Brothers	Rico	Gold
St. Louis Tunnel	Rico	Rico Argentine Mining Co.	Rico	Silver, Lead, Zinc

OPERATING MINES IN EAGLE COUNTY

Eagle	Gilman	New Jersey Zinc Co.	Gilman	Silver, Lead, Zinc, Copper
Vail Pass	Vail Pass	Basic Exploration Co.	2904 North Ave., Grand Jctn.	Uranium Dev.

OPERATING MINES IN EL PASO COUNTY

Avery	Lytel	Cliff & Creek Uranium Co.	447 Independence Bldg., Colorado Springs	Uranium, Vanadium
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OPERATING MINES IN FREMONT COUNTY

Copper Queen	Coaldale	Carson Mining & Development Co.	123 E. Bijou St., Colorado Springs	Gold, Silver, Copper
Good Hope	Texas Creek	Wichita Oil & Uranium Corp.	1404 S. 9th St., Canon City	Uranium, Vanadium
Iron Mountain	Iron Mountain	Florence Aggregate Co.	Florence	Iron Ore Aggregate
Snooper-Dickson Ore Body	Tallahassee Creek	Mazzocco Construction Co.	Box 1298, Colorado Springs	Uranium, Vanadium

OPERATING MINES IN GARFIELD COUNTY

Oil Shale Mine	Rifle	U.S. Bureau of Mines	New Custom House, Denver 2	Oil Shale
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OPERATING MINES IN GILPIN COUNTY

Bobtail Tunnel	Black Hawk	F. R. Hollenback & Gus Bakos	Black Hawk	Tourist
Bucky Shaft	Central City	Major Mark Stepelton, et al	Box 158, Idaho Springs	Uranium, Gold, Silver
Carroll	Central City	United Mining & Leasing Co.	Central City	Uranium, Vanadium, Lead, Zinc
Cherokee	Queen Ranch	AreaCherokee Uranium Mining Co.	609 Equitable Bldg., Denver 2	Gold, Silver, Lead, Zinc
Cliff	Chase Gulch	Traen & Nelson Mining Co.	Central City	Lead, Silver, Zinc
Diamond Lil Tunnel	Central City	William C. Russell, Jr.	Central City	Tourist
Elk Valley	Banta Hill	Dent, Wortman & Hendersen	2046 Welton St., Denver 5	Gold, Silver, Copper
Enterprise	Black Hawk	Traen & Nelson Mining Co.	Central City	Lead
Gerty, Hayes & Wheeler	Central City	Hayes-Wheeler Syndicate	4755 Newton St., Denver 11	Development
Gold Ridge	Lake Gulch	Russell Gulch Mining Co.	3200 S. Clayton St., Denver 5	Gold
Gonella Claim	Central City	Jo Reynolds Mining Corp.	Interstate Trust Bldg., Denver 2	Gold, Silver
La Crosse	Nevadaville	Glory Hole, Inc.	Central City	Gold, Silver, Lead, Zinc, Copper
Lamberson & Warren	Nevadaville	Royal Mining & Milling Co.	Box 571, Loveland	Uranium, Gold, Silver, Lead, Zinc
Larson	Tolland	Eastern Slope Metal Mining Corp.	Central City	Uranium, Vanadium
Little Colonel	Black Hawk	Black Hawk Trading Post	Black Hawk	Tourist
Lone Star	Missouri Gulch	Roy Addeman, et al	Box 92, Black Hawk	Lead, Zinc
Lost Gold	Central City	Fay Clapham	Central City	Tourist
Pied Piper	Silver Lake	James Boggio, et al	3064 N. Speer Blvd., Denver 11	Gold, Silver, Lead
Priscilla, Sunshine, et al	Central City	E. & H. Exploration & Mining Co.	1547 Washington St., Golden	Development
Sleeping Giant	Tolland	D. B. Tucker	Rollinsville	Development
Sleeping Day Extension	Leavenworth Gulch	Spring Day Mining Co.	Box 395, Central City	Gold, Silver, Lead, Copper
Three B's Group	Silver Lake Dist.	Dowell G. Blake	Black Hawk	Silver, Copper
Toll Gate Gold Mine	Black Hawk	Mike McNulty	Black Hawk	Tourist
Treasure Key Tunnel				
(Williams)	Black Hawk	Consolidated Gold Uranium Co.	1712 S. Broadway, Denver 10	Gold, Silver, Lead
Two Sisters	Central City	Central City Uranium Corp.	Central City	Uranium, Vanadium, Silver, Lead, Zinc
Wegotem (Gold Chief)	Silver Creek	Golden Shaft Mining & Milling Co.	9660 W. 36th St., Denver 5	Gold, Silver, Lead, Zinc
Widow Woman	Queen Ranch	AreaCherokee Uranium Mining Corp.	609 Equitable Bldg., Denver 2	Gold, Silver, Lead, Copper
Wilma	Apex	Nye Mathews Mining, Inc.	Black Hawk	Molybdenum (Development)

OPERATING MINES IN GUNNISON COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Akron	White Pine	Callahan Zinc-Lead Co.	Box 144, Gunnison	Lead, Zinc
Amazon	Tin Cup	Clarence Leonard & Hugh Corrigan	Box 456, Gunnison	Silver, Lead, Copper
Anaconda	Iola	Headlight Uranium Exploration Co.	Iola	Exploration
Augusta	Crested Butte	Newmar Mining Corp.	Box 1599, Grand Junction	Gold, Silver, Lead, Copper
Baxter	Elk Mtn.	Harry Downing & Frank Hodgson	Box 325, Paonia	Gold, Silver
Brown Derby	Parlin	U. S. Lithium Corp.	312 Walker Bank Bldg., Salt Lake City, Utah	Lithium, Lepidolite
Carter & Raymond	Gold Creek	H. & H. Exploration & Engineering Co.	1129 Colorado Ave., Grand Junction	Silver, Lead
Daisy	Redwell Basin	Redwell Basin Mining Ventures	Crested Butte	Gold, Silver, Lead, Zinc, Copper
Gold Lynx	Gold Creek	General Minerals Corp.	Meadows Bldg., Dallas, Texas	Gold, Silver, Lead
Hawkeye	Crested Butte	Atlas Uranium Corp.	Box 326, Crested Butte	Gold, Silver, Lead, Zinc
Indian Creek	Marshall Pass	Vulcan Silver Lead Corp.	Box 144, Gunnison	Uranium, Vanadium
Keystone	Crested Butte	American Smelting & Refining Co.	600 Crandle Bldg., Salt Lake City, Utah	Gold, Silver, Lead, Zinc, Copper
Silver Bear	Eyre Creek	Silver Bear Mining Co.	Grand Junction	Gold, Silver, Lead
Springfield	Mill Creek	Colorado Exploration Co.	1117 Washington St., Golden	Gold, Silver, Lead
Star	Italian Mountain	John Lambertson	Box 567, Gunnison	Silver, Lead
Willow Creek	Ohio City	Willow Creek Mining Co.	Gunnison	Beryllium, Tantalum, Mica, Columbium, Feldspar

OPERATING MINES IN HINSDALE COUNTY

Gold Quartz	Deadman Gulch	Intermountain Engineering Corp.	308 Main St., Grand Junction	Gold, Silver, Lead
Pelican	Lake City	Mendenhall & Pray	Lake City	Gold, Silver, Lead
Rodney Portal	Lake City	Gold Coin Mining Co.	Box 31, Lake City	Gold, Silver, Lead
John C. Pitkin	Gardner	Phillip R. Williams	Box 48, Walsenburg	Uranium, Vanadium

OPERATING MINES IN HUERFANO COUNTY

OPERATING MINES IN JACKSON COUNTY

Alcoa Shaft	Northgate	Mine Management Corp.	3041 Mark Ave., Salt Lake City, Utah	Fluorspar
Cap Rock	Wheeler Creek	Harold Rosenfield	Box 281, Walden	Gold, Silver, Lead
Gero Tunnel	Cowdrey	Ozark-Mahoning Co.	Cowdrey	Fluorspar
Northgate	Northgate	Ozark-Mahoning Co.	Cowdrey	Fluorspar

OPERATING MINES IN JEFFERSON COUNTY

Ascension	Golden	Yellow Queen Uranium Co.	850 Reed St., Lakewood	Uranium
Black Knight	Critchett	Thurman Mineral Development Co.	104 Broadway, Denver 3	Uranium
Bob & Lee	Ralston Creek	F. J. Moskal Co., Inc.	3916 W. 26th St. Chicago 23, Ill.	Uranium
Buckman	Golden	Verne Hawkins	Route 2, Box 165, Arvada	Uranium
Foot Hills	Idledale	Foot Hills Mining Co.	3240 6th St. Boulder	Uranium
Gary	Cressman Gulch	Denver-Golden Oil & Uranium Co.	760 Denver Club Bldg., Denver 2	Uranium
Grapevine	Idledale	Grapevine Mining Corp.	Morrison	Uranium
Ladwig	Ralston Creek	Denver-Golden Oil & Uranium Co.	760 Denver Club Bldg., Denver 2	Uranium
Leyden	Leyden	Traen & Nelson Mining Co.	Box 283, Central City	Uranium
Mann No. 1	Soda Lake	Uranium Enterprise, Inc.	2679 Arapahoe, Boulder	Uranium
Mena (South Adit)	Coal Creek Canyon	Joseph W. Walsh	4925 Montview Blvd., Denver 7	Uranium
Minnesota	Ralston Creek	Denver-Golden Oil & Uranium Co.	760 Denver Club Bldg., Denver 2	Uranium
Morrison	Soda Lake	Four Corners Uranium Corp.	633 Guaranty Bank Bldg., Denver 2	Uranium
Nare Hole No. 1	Golden Gate Canyon	Golden Drilling Co.	2301 East St., Golden	Uranium
Pearce Mine	Golden	Verne Hawkins	Route 2, Box 165, Arvada	Uranium
School District T-3 R-71	Golden	Smerdel & Fricke	2155 California St., Denver 5	Uranium
Schwartzwalder	Ralston Creek	Denver-Golden Oil & Uranium Co.	760 Denver Club Bldg., Denver 2	Uranium
Seven Devils	Sedalia	Tri State Uranium Corp.	326 Colo. Nat'l Bank Bldg., Denver 2	Uranium

OPERATING MINES IN LAKE COUNTY

Big Four Tunnel	Stumptown	Lincoln Mining & Milling Co.	106 Harrison Ave., Leadville	Gold, Silver, Lead, Zinc
Bi-Metallic	Long and Derry Hill	Louis Kostelle	203 W. 3rd St., Leadville	Gold, Silver, Lead, Zinc
Climax Mines	Climax	Climax Molybdenum Co.	Climax	Molybdenum
Hayden	Fryer Hill	Cadwell Mining Co.	2450 Kendall St., Denver 15	Gold, Silver, Lead, Zinc
Helena	Iowa Gulch	Resurrection Mining Co.	Box 936, Leadville	Gold, Silver, Lead, Zinc
Ibex No. 4	Johnny Hill	Webster Lease	400 E. 4th St., Leadville	Gold, Silver, Lead, Zinc
Irene Shaft	Johnny Hill	Resurrection Mining Co.	Box 936, Leadville	Gold, Silver, Lead, Zinc
Julia Fisk	Iowa Gulch	Resurrection Mining Co.	Box 936, Leadville	Gold, Silver, Lead, Zinc
Leadville Drainage Tunnel	Leadville	Robert L. Jones	Box 921, Leadville	Re-conditioning
Rattling Jack	Little Evans Gulch	Little Johnny Mines, Inc.	400 E. 4th St., Leadville	Gold, Silver, Lead, Zinc
Resurrection No. 2	Big Evans Gulch	Robert L. Jones	131 W. 9th St., Leadville	Gold, Silver, Lead, Zinc
Two Bit	Mt. Harvard	M & N Mining Co.	232 E. 9th St., Leadville	Development
Yak Tunnel	California Gulch	Kaiser Lease	106 Harrison Ave., Leadville	Gold, Silver, Lead, Zinc

OPERATING MINES IN LA PLATA COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Aller Tunnel	La Plata	Canyon Copper Age Uranium Co.	366 S. 5th East, Salt Lake City, Utah	Gold, Silver
Brawner Tunnel	La Plata	Canyon La Plata Gold Mines, Inc.	Farmington, New Mexico	Gold, Silver
Good Hope	Lightner Creek	Ben Brito	Southeast Grocery, Delta	Uranium, Vanadium
Knoll	La Plata	Canyon Rudolph & Roy Knoll	Route 1, Box 242, Loveland	Gold, Silver, Lead
Mudloon	La Plata	Canyon H. E. Knudson	c/o Herman Dalia, Silverton	Gold, Silver
Nevada & Good Hope	Lightner Creek	Acme Uranium Mines Institution	404 First Nat'l. Bank Bldg., Denver 2	Uranium

OPERATING MINES IN LARIMER COUNTY

Black Hawk	Red Feather	Cherokee Mines	231 S. Grant St., Fort Collins	Tourist
Hide Above Lode	Masonville	Phil Mar Oil Co.	Box 176, Estes Park	Beryllium
Hill Top	Masonville	Storm Mountain	516 Majestic Bldg., Denver 2	Uranium, Beryllium
Karen Nos. 1 to 10	Idlewild Area	Sol Schlagerl & Assoc.	Greeley	Uranium
Revis	Bellview	Revis Bros.	Bellview	Uranium
Uranium Queen	Manhattan District	Uranium Queen Exploration Co.	823 1/2 16th St., Greeley	Uranium

OPERATING MINES IN MESA COUNTY

Arrowhead No. 2	Calamity Mesa	A. C. Rinderle	404 Sherman Drive, Grand Junction	Uranium, Vanadium
Arrowhead No. 18	Calamity Mesa	Dorr Phillips	Route 1, Grand Junction	Uranium, Vanadium
Arrowhead No. 19	Calamity Mesa	William Holder	Route 4, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 4	Calamity Mesa	E. L. Kelly	505 - 29 1/4 Road, Grand Jctn.	Uranium, Vanadium
Arrowhead Incline Nos. 7 & 11	Mesa	Edward Knizley	274 - 27 Road, Grand Jctn.	Uranium, Vanadium
Arrowhead Incline No. 12	Calamity Mesa	Sterry Bros.	Route 5, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 18	Calamity Mesa	Dorr Phillips	Route 1, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 19	Calamity Mesa	Wright & Rinderle	404 Sherman Drive, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 20	Calamity Mesa	A. C. Rinderle	404 Sherman Drive, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 21	Calamity Mesa	H. L. Arbogast & William Holder	Route 4, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 23	Calamity Mesa	Sterry Bros.	Route 5, Grand Junction	Uranium, Vanadium
Arrowhead Incline No. 252	Calamity Mesa	Dorr Phillips	Route 1, Grand Junction	Uranium, Vanadium
Austin	Beaver Mesa	Kirk Basin Uranium Corp.	608 Road Ave., Grand Junction Development	Uranium, Vanadium
Austin No. 17	Beaver Mesa	A. C. Rinderle	404 Sherman Drive, Grand Junction	Uranium, Vanadium
Belmont Nos. 1 & 2	Maverick Point	Ben Zimmerman	2940 1/2 F Road, Grand Jctn.	Uranium, Vanadium
Big 7 Mine	Blue Mesa	Ace Turner	Fruit	Uranium, Vanadium
Black Mammy	Tenderfoot Mesa	John Watts	232 W. 6th St., Delta	Uranium, Vanadium
Black Strack	Blue Mesa	Greenhill & Prothro	Olahe	Uranium, Vanadium
Blue Bird	Outlaw Mesa	Mrs. Vern Hendricks	c/o Climax Uranium Co., Grand Junction	Uranium, Vanadium
Blue Ribbon Nos. 1 & 2	Calamity Mesa	E. C. Hughes	1925 White St., Grand Jctn.	Uranium, Vanadium
Blue Ribbon No. 3	Calamity Mesa	Norman Wellman	Box 1901, Grand Junction	Uranium, Vanadium
Boyle Bros. Mine	Calamity Mesa	Boyle Bros. Drilling Co.	1321 S. Main St., Salt Lake City, Utah	Uranium, Vanadium
Calamity Nos. 2 & 5	Calamity Mesa	Vernon Lehr	2007 Orchard Ave., Grand Junction	Uranium, Vanadium
Calamity No. 6	Calamity Mesa	Lark Washburn & DeVar Shumway	313 Hill Drive, Grand Jctn.	Uranium, Vanadium
Calamity Nos. 7 & 13-B	Calamity Mesa	Lark Washburn	313 Hill Drive, Grand Jctn.	Uranium, Vanadium

Calamity Nos. 21 & 27	Calamity Mesa	Vernon Lehr	2007 Orchard Ave., Grand Junction	Uranium, Vanadium
Calamity No. 27 East	Calamity Mesa	Carl Tucker	Uravan	Uranium, Vanadium
Cave Adit No. 1	Calamity Mesa	Yeager & Titus	Box 1649, Grand Junction	Uranium, Vanadium
Century Tunnel	Beaver Mesa	Argo Mining Co.	Box 1698, Grand Junction	Uranium, Vanadium
Cherokee	Beaver Mesa	Beaver Mesa Mining, Inc.	Grand Junction	Uranium, Vanadium
Chesnut Nos. 1 & 2	Outlaw Mesa	American Leduc Uranium Corp.	Box 1336, Grand Junction	Uranium, Vanadium
Crows Nest	Outlaw Mesa	William Holder	Box 1421, Grand Junction	Uranium, Vanadium
Depression No. 6	Flat Top Mesa	Hays C. Wilson	Box 606, Rifle	Uranium, Vanadium
Dixie No. 2	Calamity Mesa	Lark Washburn	313 Hill Drive, Grand Junction	Uranium, Vanadium
Eclipse No. 2	Calamity Mesa	Uniwacp Canyon	Box 5, Steamboat Springs	Uranium, Vanadium
Elizabeth No. 8 Incline				
No. 2	Blue Mesa	Cullen Minerals Corp.	610 Rood Ave., Grand Junction	Uranium, Vanadium
Elizabeth No. 9	Blue Mesa	William Hewitt	646 Main St., Grand Junction	Uranium, Vanadium
Elizabeth No. 18	Blue Mesa	C. A. Exploration Co.	Grand Junction	Uranium, Vanadium
Flat Top	Flat Top Mesa	Silver Pick Uranium Co.	923 N. 7th St., Grand Junction	Uranium, Vanadium
Government Nos. 1, 2, 3	Outlaw Mesa	Climax Uranium Co.	Box 1901, Grand Junction	Uranium, Vanadium
Hanson-Negus	Outlaw Mesa	H. L. Arbogast	Box 4, Grand Junction	Uranium, Vanadium
Henderson Incline	Outlaw Mesa	American Leduc Uranium Corp.	Box 1336, Grand Junction	Uranium, Vanadium
Hope Group	Blue Mesa	C. E. & Dwight Poland	834 S. 7th St., Grand Junction	Uranium, Vanadium
Hubbard Tunnel	Beaver Mesa	Beaver Mesa Uranium, Inc.	2791 S. Highway 50, Grand Junction	Uranium, Vanadium
Jody	Mesa Creek	Dallas Uranium & Oil Corp.	Grand Junction	Uranium, Vanadium
Karns Incline	Outlaw Mesa	A. C. Rinderle	404 Sherman Drive, Grand Junction	Uranium, Vanadium
Kling Solomon	Tenderfoot Mesa	Canyon Uranium Co.	740 Main St., Grand Junction	Uranium, Vanadium
Knot	Tenderfoot Mesa	H. Key & Son	Fruita	Uranium, Vanadium
La Sal Lease	Beaver Mesa	Lee Hetzel	Box 455, Clifton	Uranium, Vanadium
La Sal No. 1	Beaver Mesa	Beaver Mesa Uranium Co.	Gulf Bldg., Grand Junction	Uranium, Vanadium
La Sal No. 2	Beaver Mesa	Lisbon Uranium Corp.	310 First Security Bldg., Salt Lake City, Utah	Uranium, Vanadium
La Salle Extension Nos. 3, 5, 7	Beaver Mesa	Utarado Mining Co.	Gateway	Uranium, Vanadium
Lavada	Outlaw Mesa	Jack Montgomery	Gateway	Uranium, Vanadium
Liberty Bell	Tenderfoot Mesa	Leonard Foster	504 - 28 1/4 Road, Grand Jctn.	Uranium, Vanadium
Lisbon Tunnel	Beaver Mesa	Eugene Bishop	Box 1834, Grand Junction	Uranium, Vanadium
Lost Dutchman-Bonanza	Beaver Mesa	Argo Mining Co.	2007 Orchard Mesa, Grand Junction	Uranium, Vanadium
Lucky Boy	Calamity Mesa	William Mease	Box 185, Rifle	Uranium, Vanadium
Lumsden No. 1	Beaver Mesa	Charles Woodard	Uravan	Uranium, Vanadium
Lumsden No. 2	Beaver Mesa	Ralph D. Hickman	Route 5, Grand Junction	Uranium, Vanadium
Maverick No. 6	Maverick Mesa	Norman Wellman	Rifle	Uranium, Vanadium
Mesa No. 5, Inclines 1 & 2	Outlaw Mesa	Herbert Foster	1217 Colorado Ave., Grand Junction	Uranium, Vanadium
Mesa No. 8	Outlaw Mesa	Ralph Foster & Sons	1217 Colorado Ave., Grand Junction	Uranium, Vanadium
Mineral Channel Inclines 3 & 5	Outlaw Mesa	H. L. Arbogast	Route 4, Grand Junction	Uranium, Vanadium
Mineral Channel Incline No. 12	Outlaw Mesa	Dorr Phillips	Route 1, Grand Junction	Uranium, Vanadium
Munro No. 18	Outlaw Mesa	Frank Hodgson	Box 1336, c/o American Leduc Uranium Co., Grand Jctn.	Uranium, Vanadium
New Queen of the Hills	Calamity Mesa	Lark Washburn & DeVar Shum-	313 Hill Drive, Grand Junction	Uranium, Vanadium
New Verde	Calamity Mesa	way New Verde Mines	Box 1472, Grand Junction	Uranium, Vanadium

OPERATING MINES IN MESA COUNTY—Con't.

Name of Mine	Location	Operator	P. O. Address	Product
Outlaw No. 25	Outlaw Mesa	Frank Hodgson	c/o American Leduc Uranium Co., Box 1336, Grand Junction	Uranium, Vanadium
Phoenix (Old Horney)	Tenderfoot Mesa	Phoenix Mines	1930 N. 15th St., Grand Junction	Uranium, Vanadium
Queen of the Hills (East)	Calamity Mesa	Harold Williams	Box 431, Nucla	Uranium, Vanadium
Rajah No. 28	Beaver Mesa	Model Mining Co.	Box 1105, Grand Junction	Uranium, Vanadium
Raven No. 3	Blue Creek	Chesapeake & Colorado Corp.	134 S. 4th St., Grand Junction	Uranium, Vanadium
Ronnie No. 1	Outlaw Mesa	Brown Mines, Inc.	Box 243, Montrose	Development
Ronnie No. 2	Outlaw Mesa	William Holder	Box 1421, Grand Junction	Uranium, Vanadium
South Pack Rat	Beaver Mesa	Beaver Mesa Uranium Co.	2701 S. Highway 50, Grand Junction	Uranium, Vanadium
Spring No. 1	Outlaw Mesa	Blue Ribbon Mines, Inc.	6905 W. Colfax Ave., Denver 15	Uranium, Vanadium
Thunder Cloud No. 1	Gateway	Ed Horn	Box 473, Rifle	Uranium, Vanadium
Triumph	Calamity Mesa	Lark Washburn & DeVar Shumway	313 Hill Dr., Grand Junction	Uranium, Vanadium
Yellow Jacket No. 16	Arrowhead	Norman Wellman	Rifle	Uranium, Vanadium

OPERATING MINES IN MINERAL COUNTY

Amethyst	West Willow Creek	Emperius Mining Co.	Creede	Gold, Silver, Lead, Zinc
Commodore	West Willow Creek	Emperius Mining Co.	Creede	Gold, Silver, Lead, Zinc
Gormax Mine No. 1	East Willow Creek	Scoot Jackson & Co.	Creede	Gold, Silver, Lead, Zinc
Monon	Sunnyside Creek	Monon Leasing Co.	Creede	Gold, Silver, Lead, Zinc
Outlet Tunnel	West Willow Creek	Outlet and Sublet Mining Companies	Creede	Gold, Silver, Lead, Zinc
Phoenix	East Willow Creek	Outlet Mining Co.	Creede	Gold, Silver, Lead, Zinc

OPERATING MINES IN MOFFAT COUNTY

Bromide	Greystone	Western Exploration Co.	1534 S. Mead St., Wichita, Kansas	Copper
Gertrude Nos. 1 to 18	Maybell	Trace Elements Corp.	Box 1169, Grand Junction	Uranium, Vanadium
Little Star	Massadona	Jacobs Chair Mining Corp.	170 Broadway, New York 5, N. Y.	Uranium, Vanadium
Marge No. 1	Maybell	Trace Elements Corp.	Box 1169, Grand Junction	Uranium, Vanadium

OPERATING MINES IN MONTEZUMA COUNTY

Blue Eagle & Yellow Lizzard	Cross Canyon	Elree Young	Sago Route, Dove Creek	Uranium, Vanadium
Cross No. 1	Cross Canyon	Cross Canyon Uranium Co.	Grand View Bank, Grand View, Missouri	Uranium, Vanadium
Red Arrow	Mancos	First National Oils & Minerals Co.	Box 1595, Pueblo	Gold, Silver
Robertta Jean	Cross Canyon	Owen & Ringwald	Dove Creek	Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY

A. E. C. Block No. 6	Club Mesa	Barley & Co.	Box 8, Cripple Creek	Uranium, Vanadium
Adak (Rex)	Dolores River	Rex Uranium Co.	Farmington, New Mexico	Uranium, Vanadium
Alfa	Martin Mesa	Phillp Klingensmith	Box 337, Uravan	Uranium, Vanadium
American Eagle	Little Gyp Valley	Stanley Oliver	Norwood	Uranium, Vanadium
Austin	Uravan	Ronald Hutton	Uravan	Uranium, Vanadium
Aztec	Monogram Mesa	C. N. Athey	Naturita	Uranium, Vanadium
Badger	Martin Mesa	K. M. & D. L. Andrews	Naturita	Uranium, Vanadium
Badger No. 1	Long Park	Carl Kinsey	Route 1, Box 186, Montrose	Uranium, Vanadium
Beaver	Club Mesa	Wm. Barnett	Box F, Naturita	Uranium, Vanadium
Bernard	Uravan	Harold Williams	Box 431, Nucla	Uranium, Vanadium
Beta	Uravan	Lark Washburn	Box 856, Uravan	Uranium, Vanadium
Big Bull	Bull Canyon	E. J. Alonzo	Box 234, Naturita	Uranium, Vanadium
Big Dick	Uravan	Kelly & Selan	Route 4, Grand Junction	Uranium, Vanadium
Big Mitt	Atkinson Mesa	Frank Stocklase	Box 406, Uravan	Uranium, Vanadium
Bitter Creek	S. E. Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
Blackburn	Monogram Mesa	Gerald Patterson	Box 272, Uravan	Uranium, Vanadium
Bluebird	Atkinson Mesa	Cecil Kinser	Nucla	Uranium, Vanadium
Bob Cat	Long Park	Carl Kinsey	Route 1, Box 186, Montrose	Uranium, Vanadium
Bowen No. 1	Atkinson Mesa	Golden Cycle Corp.	Box 86, Colorado Springs	Uranium, Vanadium
Brook No. 1	Little Gyp Valley	Jerry Mayfield	Naturita	Uranium, Vanadium
Buckhorn No. 2	Carpenter Ridge	Cog Minerals Co.	727 3rd Ave., Grand Junction	Uranium, Vanadium
Buckskin No. 3	Buff	Verdon Minerals Co.	Houston, Texas	Uranium, Vanadium
C. F. C. & Moonbeam	Long Park	Brickey & Alexander	Box 423, Uravan	Uranium, Vanadium
Calvert	Bull Canyon	Harold Price	Box 74, Nucla	Uranium, Vanadium
Carpathia	Long Park	Carl Tucker	Grand Valley	Uranium, Vanadium
Cashin	Lower La Sal	Cashin Copper Corp.	Paradox	Silver, Copper
Chimmonk & Probable	Little Gyp Valley	Elmer Neilson	Box 234, Ridgway	Uranium, Vanadium
Cliff Dweller	Dolores Rim	Vanadium Corp. of America	Durango	Uranium, Vanadium
Cliff Willow	La Sal Creek	W. B. Vanett	Box 922, Moab, Utah	Uranium, Vanadium
Club Group	Club Mesa	Lark L. Washburn	Box 850, Uravan	Uranium, Vanadium
Colorado	Long Park	W. B. Eckman	Box 127, Nucla	Uranium, Vanadium
Cripple Creek No. 2	Long Park	W. B. Eckman	Box 127, Nucla	Uranium, Vanadium
Crown Prince	Martin Mesa	Phillp Klingensmith	Box 337, Uravan	Uranium, Vanadium
Diana	Bull Canyon	E. J. Alonzo	Box 234, Naturita	Uranium, Vanadium
Doagy No. 2	Monogram Mesa	W. B. Eckman	Box 127, Nucla	Uranium, Vanadium
Dolores	Dolores Rim	Martin Templeton	Box 103, Nucla	Uranium, Vanadium
Donald L.	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
Dorothy	Long Park	Lloyd Rainwater	Box 13, Nucla	Uranium, Vanadium
Dorothy Jean	Long Park	Joe Skalla	Norwood	Uranium, Vanadium
Dusty	Long Park	Vanadium Corp. of America	Durango	Uranium, Vanadium
East Opera Box	Monogram Rim	C. N. Athey	Box 324, Naturita	Uranium, Vanadium
Echo Nos. 4 & 6	Bull Canyon	Glenn Gregor	Norwood	Uranium, Vanadium
Eclipse (Radium King)	Carpenter Flats	Radium King Mines, Inc.	366 S. 5th St. East, Salt Lake City, Utah	Uranium, Vanadium
Equinox	Atkinson Mesa	LeRoy Bowerman	Box 494, Uravan	Uranium, Vanadium
Eva	La Sal Canyon	Vanadium Corp. of America	Durango	Uranium, Vanadium
Evening Star Nos. 1 & 2	Lion Creek	C. E. Davis	Bed Rock	Uranium, Vanadium
Fawn Springs No. 7	Bull Canyon	Virgil F. Allen	Fruita	Uranium, Vanadium
Fawn Springs No. 10	Bull Canyon	Harold W. Johnson	333 North Ave., Grand Jctn.	Uranium, Vanadium
Fawn Springs No. 12	Bull Canyon	Robert Tibbs	Nucla	Uranium, Vanadium
Fawn Springs No. 13	Bull Canyon	Virgil Allen	Fruita	Uranium, Vanadium
Fawn Springs No. 15	Bull Canyon	A. D. Sheek & Assoc.	Naturita	Uranium, Vanadium
Fire Bird	Long Park	L. Brickey & L. Alexander	Uravan	Uranium, Vanadium
Firecracker No. 1	Long Park	Vanadium Corp. of America	Naturita	Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY—Con't.

Name of Mine	Location	Operator	P. O. Address	Product
Firecracker Incline	Long Park	Ben Brito & Henry Trujillo	Delta	Uranium, Vanadium
First National Bank	Center Long	Barnes Bros.	Nucla	Uranium, Vanadium
Fourth & Fifth National Banks	Long Park	Paul Gardner	Naturita	Uranium, Vanadium
Fox	Dolores Rim	Dan Kelly & Robert Selan	Route 4, Grand Junction	Uranium, Vanadium
Good Hope	Eagle Basin	John Ages	215 Lands Down, Grand Junction	Uranium, Vanadium
Government Block B	Uravan	D. C. Bunker	Nucla	Uranium Vanadium
Grandad No. 2	Bull Canyon	Frank Gardner & E. Wilson	Box 101, Naturita	Uranium Vanadium
Grass Roots	Uravan	Glen Stockkla	Box 400, Uravan	Uranium Vanadium
Great Western	N.W. Long Park	R. C. Bishop	Box 424, Uravan	Uranium Vanadium
Groundhog	Long Park	Brickey & Alexander	Box 423, Uravan	Uranium Vanadium
Guadalucañal	Long Park	LaVerne Ray	Uravan	Uranium Vanadium
Happy Jack	Long Park	Robert Williams	Box 761, Durango	Uranium Vanadium
Henry Clay	Little Gyp Valley	Forrest Binder	Uravan	Uranium Vanadium
Hidden Basin	Long Park	John Morrill	Durango	Uranium Vanadium
Hidden Ball	Long Park	Vanadium Corp. of America	Telluride	Uranium Vanadium
Hobo	Bull Canyon	Ouray Uranium Co.	Box 64, Naturita	Uranium Vanadium
Honeymoon	Central Long Park	O. E. Smart		
Horsehair No. 1	Bull Canyon	R. C. Bishop	Box 424, Uravan	Uranium Vanadium
Hummer & North Hummer	Monogram Mesa	Verdon Minerals Co.	Box 13006, Houston, Texas	Uranium Vanadium
J. M. Mine	Club Mesa	Lowell Staats	Box 337, Nucla	Uranium Vanadium
Jo Anne No. 4	Dolores Rim	Goode & Kruse	Box 73, Naturita	Uranium Vanadium
Joe	Atkinson Mesa	Clarence J. Holder	Naturita	Uranium Vanadium
Joker	Little Gyp Valley	Donald Young	Box 297, Uravan	Uranium Vanadium
Lark Nos. 1 & 8	Bull Canyon	Black Hawk Uranium Co.	136 S. State St., Salt Lake City, Utah	Uranium, Vanadium
La Salle Shaft	Club Mesa	North Standard Mining Co.	Provo, Utah	Uranium, Vanadium
Last Chance	Uravan	La Salle Mining Co.	Box 217, Grand Junction	Uranium, Vanadium
Little Alice	Wild Steer Canyon	Frank Elder	Box 526, Uravan	Uranium, Vanadium
Little Basin	San Miguel Bench	Tim Fisher	Naturita	Uranium, Vanadium
Little Dick	Atkinson Mesa	Frank Elder	Box 422, Fruita	Uranium, Vanadium
Log Cabin	Bull Canyon	Milton Caster	Box 526, Nucla	Uranium, Vanadium
Long Pine	Carpenter Ridge	Delbert Dyer	Box 284, Naturita	Uranium, Vanadium
Long Park No. 1	Long Park	R. D. Johnson	Box 33, Paradox	Uranium, Vanadium
Long Park No. 6	Long Park	Frank Pedel	Box 235, Nucla	Uranium, Vanadium
Long Park No. 9	Long Park	H. F. Gardner & Son	Box 473, Uravan	Uranium, Vanadium
Long Park No. 12	Long Park	E. T. Holdeman	Naturita	Uranium, Vanadium
Lucky Dog	Atkinson Mesa	O. E. Cole	Box 473, Uravan	Uranium, Vanadium
Marjorie Ann	Lion Creek	Four Corners Uranium Co.	Box 473, Uravan	Uranium, Vanadium
Mary Ann	Monogram Mesa	Joe Skalla	Box 272, Uravan	Uranium, Vanadium
Mill No. 1 Mine	Club Mesa	O'Bryant & Powell	Box 1749, Grand Junction	Uranium, Vanadium
Mill No. 2 Mine	Club Mesa	Javernick & Borgeson	Box 236, Norwood	Uranium, Vanadium
Mineral Joe Addit	Club Mesa	Climax Uranium Co.	1925 S. 14th St., Montrose	Uranium, Vanadium
Mineral Joe Incline No. 1	Monogram Mesa	Richards & Richards	Grand Junction	Uranium, Vanadium
Mineral Joe Shaft No. 1	Monogram Mesa	Climax Uranium Co.	Nucla	Uranium, Vanadium
Mineral Park No. 4	Monogram Mesa	Ambassador Oil Co.	Grand Junction	Uranium, Vanadium
Mineral Park No. 5	Monogram Mesa	Fred Hawkins	3101 Winthrop Ave., Fort Worth, Texas	Uranium, Vanadium
Morning Star	Lion Creek	Glen Mulligan	P. O. Box 1697, Grand Junction	Uranium, Vanadium
North Star	Dolores Rim	Vanadium Corp. of America	Box 805, Cortez	Uranium, Vanadium
Ophir	Atkinson Mesa	Cecil Bunker	Durango	Uranium, Vanadium
			Nucla	Uranium, Vanadium

Oversight	Monogram Rim	William Barrett	Box 301	Naturita	Uranium, Vanadium
Paradox D	Paradox Mesa	R. D. Johnson	Box 325	Nucla	Uranium, Vanadium
Patty No. 5 Incline	Bull Canyon	R. Bellisle & G. Reed	Naturita		Uranium, Vanadium
Pay Day	Martin Mesa	Philip Klingensmith	Box 337	Uravan	Uranium, Vanadium
Peanut	Bull Canyon	R. S. Dunn	Box 206	Naturita	Uranium, Vanadium
Piper Nos. 1 & 3 & Shamrock No. 3	Carpenter Flats	Neptune Uranium Corp.	Uravan		Uranium, Vanadium
Princess	Martin Mesa	Philip Klingensmith	Box 337	Uravan	Uranium, Vanadium
Production	Long Park	Philip Bunker	Box 227	Nucla	Uranium, Vanadium
Quarrell	Bull Canyon	Lee Elder	Box 76	Uravan	Uranium, Vanadium
Radium Cycle	Carpenter Ridge	Beehive Mining Corp.	974 Elgin Ave., Salt Lake City, Utah		Uranium, Vanadium
Rattle Snake	Eagle Basin	Uranium Development Co.	Station 1, Santa Fe, New Mexico		Uranium, Vanadium
Raven	Little Gyp Valley	Forrest V. Binder	Box 761, Durango		Uranium, Vanadium
Red Bird	Sylvia's Pocket	Moab Treasure Uranium Co.	Box 452, Salt Lake City, Utah		Uranium, Vanadium
Red Fox	Eagle Basin	Jessie Longwill	Naturita		Uranium, Vanadium
Red Rock No. 5	Martin Mesa	A. W. Boldt	Box 1465, Grand Junction		Uranium, Vanadium
Red Sox	Dolores Rim	Vanadium Corp. of America	Durango		Uranium, Vanadium
Rimrock No. 2	Long Park	Clyde & Wendell Jones	Blanding, Utah		Uranium, Vanadium
Rimrock No. 3	Wedding Bell	Harold Price	Box 74, Nucla		Uranium, Vanadium
Rimrock Blues Nos. 2 & 5	Wedding Bell	Wolverton & Wilkins	Box 283, Naturita		Uranium, Vanadium
Rimrock Blues No. 6	Bull Canyon	Carleton F. Bishop	Box 206, Naturita		Uranium, Vanadium
Roc Creek	Roc Creek	Roulette Mining Corp.	2595 Pierce St., Denver 14		Uranium, Vanadium
St. Patrick	Long Park	Clarence L. Neilson	Uravan		Uranium, Vanadium
Sam	Bull Canyon	Dale Sturtevant	Naturita		Uranium, Vanadium
Sandy	Atkinson Mesa	Douglas Cleghorn	Box 502		Uranium, Vanadium
September Morn	Bull Canyon	A. Moore & C. Zurfelt	Box 273, Naturita	Uravan	Uranium, Vanadium
Shattuck Denn Shaft	Club Mesa	Shattuck Denn Mining Co.	Box 878, Uravan		Uranium, Vanadium
South Blackfoot	Pagle Basin	John Dade	Naturita		Uranium, Vanadium
Sphinx	Long Park	Clarence Neilson	Uravan		Uranium, Vanadium
Star No. 3	San Miguel Bench	Barnes Brothers	Box 235, Naturita		Uranium, Vanadium
Star No. 3 South	Dolores Bench	DeVar Shumway	215 Lands Down, Grand Junction		Uranium, Vanadium
Starlight	Bull Canyon	A. Moore	Box H, Naturita		Uranium, Vanadium
Sun Beam	Eagle Basin	Vanadium Corp. of America	Durango		Uranium, Vanadium
Sunrise No. 3	Bull Canyon	Morgan Minerals Co.	Corpus Christi, Texas		Uranium, Vanadium
Sunrise Nos. 4 & 5	Bull Canyon	Ernest Berry	Naturita		Uranium, Vanadium
Teapot Dome	Bull Canyon	Delbert Burbridge	Box 104, Nucla		Uranium, Vanadium
Three Jacks	La Sal Canyon	Vanadium Corp. of America	Durango		Uranium, Vanadium
Townhouse	Atkinson Mesa	Ronald Hutton & Bob Schiff	Box 231, Uravan		Uranium, Vanadium
Tramp Nos. 1 & 3	Long Park	Carl Mangum & D. Jones	Box 282, Uravan		Uranium, Vanadium
Tramp No. 2	Long Park	Lark Washburn	Box 850, Uravan		Uranium, Vanadium
Triangulation	Long Park	Johnson & Giesler	Box 505, Uravan		Uranium, Vanadium
U. S. Grant	Long Park	Tom Van Arsdale	Box 296, Nucla		Uranium, Vanadium
Ureka	Carpenter Ridge	Cog Minerals Co.	727 3rd Ave., Grand Junction		Uranium, Vanadium
Vaden View	Wild Steer Canyon	Vanadium Corp. of America	Durango		Uranium, Vanadium
Valley View	Carpenter Ridge	Chas. G. Fuller & C. A. Nickos	Route 1, Fruita		Uranium, Vanadium
Vanadium King	Long Park	Vanadium Corp. of America	Durango		Uranium, Vanadium
Vanadium Queen	MacIntyre Canyon	Richard Dillon	Cortez		Uranium, Vanadium

OPERATING MINES IN MONTROSE COUNTY—Con't.

Name of Mine	Location	Operator	P. O. Address	Product
Virgin	Long Park	R. C. Bunker	Box 153, Nucla	Uranium, Vanadium
West Opera Box	Monogram Mesa	Clark & Harris	Box 596, Nucla	Uranium, Vanadium
Worcester Mines	Atkinson Mesa	Worcester Mines, Inc.	1501 White Ave., Grand Junction	Uranium, Vanadium
Zella	Carpenter Flats	Hugo W. Johnson & Co.	Cripple Creek	Uranium, Vanadium

OPERATING MINES IN OURAY COUNTY

Big Andy	Poguepsie Gulch	Andy Suytac	Ouray	Gold, Silver, Lead
Brown Mountain	Grey Copper Gulch	Glen Porter	Ouray	Zinc
Camp Bird	Ouray	Camp Bird Limited	Ouray	Gold, Silver, Lead, Zinc
Edna	Ironton Park	St. Germain Foundation	Ouray	Gold, Silver
Greyhound Group	Ironton Park	Mayflower Mining & Petroleum Co.	Ouray	Gold, Silver, Lead, Zinc
Keystone	Yankee Boy Basin	Walter Smith & Edwin Wright	Ouray	Gold, Silver, Lead, Zinc
Pony Express	Lake Lenore	Mel Thompson	c/o Fellin Bros., Ouray	Gold, Silver, Lead
Rouville	Red Mountain	Rouville Mining Co.	Box 388, Silverton	Gold, Silver, Copper, Lead
Treasury Tunnel	Ouray	Idarado Mining Co.	Ouray	Gold, Silver, Lead, Zinc, Copper
Wewissl	Bear Mountain	Glen Porter & Son	Box 119, Ouray	Gold, Silver, Lead

OPERATING MINES IN PARK COUNTY

Betty	Guffey	A. T. & A. Uranium Co.	Canon City	Gold, Silver, Lead, Copper, Zinc
Boomer	Badger Flats	Lowrey Nelson	5 N. Tejon St., Colorado Springs	Beryl
Buckskin Joe	Buckskin Gulch	Buckskin Joe Mines, Ltd.	Alma	Gold, Silver, Lead, Copper, Zinc
Ling	North Star Mountain	Cordillera Corp.	Fairplay	Gold, Silver, Copper, Lead, Zinc
Parco	Grant	Williams & Floyd	Box 26, Bailey	Uranium
Queen Mary	Alma	Clyde Lookhart	435 E. Williamette, Colorado Springs	Gold, Silver, Lead, Zinc
W. G. Mine	Horseshoe District	W. G. Mines Assn.	Alma	Gold, Silver, Lead, Zinc

OPERATING MINES IN PITKIN COUNTY

Kris Kringle	Peek-A-Boo Creek	James Foster	Aspen	Gold, Silver, Lead
Smuggler	Aspen	John F. Lewis	Box 150, Aspen	Gold, Silver, Lead

OPERATING MINES IN RIO BLANCO COUNTY

Burrell Nos. 1, 2, 3	Meeker	McAlester Fuel Co.	Meeker	Uranium, Vanadium
Columbine & Naomi Ann	Meeker	McAlester Fuel Co.	Meeker	Uranium, Vanadium
Devercaux Brothers	Meeker	D. J. Devercaux	Box 373, Meeker	Uranium, Vanadium
Midnight (North Half)	Uranium	Ken & Lincoln Johnson	Rifle	Uranium, Vanadium
Midnight (South Half)	Meeker	Ray Hasselbush & William Moulten		
No Name No. 3	Meeker	Harry H. Harp	Box 491, Rifle	Uranium, Vanadium
Sleepy Cat	Meeker	Marcy Exploration & Mining Co.	Box 643, Meeker	Uranium, Vanadium
Windy Point Nos. 1 & 2	Uranium	Louise Smith	Meeker	Uranium, Vanadium
			4711 Page Blvd., St. Louis, Mo.	Uranium, Vanadium

OPERATING MINE IN RIO GRANDE COUNTY

Summitville	Summitville	General Minerals Corp.	Box 446, Grand Junction	Gold, Silver, Lead, Zinc
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OPERATING MINE IN ROUTT COUNTY

Copper King	McCoy	McFarland & Hullinger	Box 238, Tooele, Utah	Copper
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OPERATING MINES IN SAGUACHE COUNTY

Bennett	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Silver, Lead, Zinc
Bonanza	Bonanza	National Consolidated Corp.	Rainbow Blvd., Salida	Gold, Silver, Lead, Zinc
Cliff	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Gold, Silver, Lead, Zinc
D & J Mine (Bonita)	Marshall Creek	D & J Uranium & Exploration Co.	4th & Santa Fe, Pueblo	Uranium, Vanadium
Erie No. 28	Indian Creek	Vulcan Silver Lead Co.	Gunnison	Uranium, Vanadium
Jupiter	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Gold, Silver, Lead, Zinc
Los Ochos	Cochetopa	Gunnison Mining Co.	Box 539, Gunnison	Uranium, Vanadium
Navajo	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Gold, Silver, Lead, Zinc
Queen City	Bonanza	Queen City Mining Co.	1120 Kearney St., Denver	Gold, Silver, Lead, Zinc
Rawley Nos. 1 & 2	Bonanza	William Costello	Bonanza Route, Villa Grove	Silver, Lead, Zinc
Rawley No. 12	Squirrel	Superior Mines Corp.	Box 127, Salida	Gold, Silver, Lead, Zinc, Copper
Uncompahgre No. 1	Marshall Pass	Uncompahgre Exploration Co.	308 Palmer St., Salida	Uranium, Vanadium
Warwick	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Gold, Silver, Lead, Zinc
Whale	Bonanza	W. O. Fortenberry	1122 Natl. Bank Bldg., Lubbock, Texas	Gold, Silver, Lead, Zinc
Wheel of Fortune	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Gold, Silver, Lead, Zinc

OPERATING MINES IN SAN MIGUEL COUNTY—Con't.

Name of Mine	Location	Operator	P. O. Address	Product
Hogback Claim	Bishop Canyon	Bishop Canyon Uranium Co.	Box 333, Dove Creek	Uranium, Vanadium
Horseshoe No. 1	Horseshoe Bend	Oray Uranium Co.	Moab, Utah	Uranium, Vanadium
Horseshoe No. 4	Horseshoe Bend	Oddie Cross	Box 1593, Cortez	Uranium, Vanadium
Horseshoe No. 5	Horseshoe Bend	William Barlow	Box 3, Dove Creek	Uranium, Vanadium
Ike No. 2	Radium Camp	Dulaney Mining Co.	First Nat'l Bank Bldg., Grand Junction	Uranium, Vanadium
Iron Springs Placer	Old Onphir	C. K. Robinson & Co.	2001 Lynch St., East St. Louis, Illinois	Bog Iron
Jack Knife	Wedding Bell	George Vranish	Box 992, Moab, Utah	Uranium, Vanadium
Jupiter	Spud Patch	Small Mines Co.	Box 204, Mancos	Uranium, Vanadium
King No. 2	Slick Rock	Ortmayer Mining Co.	Dove Creek	Uranium, Vanadium
King No. 4	Slick Rock	Jack Williams & Assoc.	Egnar	Uranium, Vanadium
King No. 6	Slick Rock	Slickmore Mining Co.	Box 558, Dolores	Uranium, Vanadium
Lone Peak	Spud Patch	Yankee Canuck Mines	Box 127, Moab, Utah	Uranium, Vanadium
Longridge	Slick Rock	Hardin & Plantz	Redvale	Uranium, Vanadium
Lucky Strike	Bishop Canyon	Carrine Drilling Co.	Box 402, Dove Creek	Uranium, Vanadium
Main Street	Wedding Bell	Claire Albano	Box 522, Nucla	Uranium, Vanadium
Marie	Bishop Canyon	J. B. Sanchez	Dove Creek	Uranium, Vanadium
Mary Jane	Ham Canyon	Tom Welbourne & Assoc.	227 S. 5th St., Montrose	Uranium, Vanadium
May No. 2	Slick Rock	Ortmayer Mining Co.	Dove Creek	Uranium, Vanadium
Middle Hawk	Slick Rock	W. J. Burwell	Egnar	Uranium, Vanadium
Modena	Bear Creek Basin	Lishon Valley Uranium Co.	501 Kittredge Bldg., Denver 2	Uranium, Vanadium
Moqua Jug	Spud Patch	Edward J. Johannsen	Box 117, Nucla	Uranium, Vanadium
Morning Glory	Big Gyp Valley	William Hardin & Assoc.	Redvale	Development
Mucha Grande	Slick Rock	Holder, Auringer & Ream	Box 165, Dove Creek	Uranium, Vanadium
Ocupaugh	Slick Rock	Foster Brothers	Egnar	Uranium, Vanadium
Pandora	Pandora	Idarado Mining Co.	Telluride	Gold, Silver, Lead, Zinc, Copper
Parrot	Slick Rock	Clotworthy & Waggoner	Paradox	Uranium, Vanadium
Pike County Mine	Onphir	Mount Wilson Mining Co.	Placerville	Development
Pitch Fork	Upper Gyp	Yankee Canuck Mines	Moab, Utah	Uranium, Vanadium
Pitch Fork No. 1	Upper Gyp	Douglas Sears	Redvale	Uranium, Vanadium
Polaris	Bear Creek	Waverly Mining Co.	Telluride	Uranium, Vanadium
Pond	Upper Gyp	William Hardin	Redvale	Uranium, Vanadium
Preston Moore	Tomboy Road	Pandora Mining Co.	134 E. Colorado Ave., Telluride	Uranium, Vanadium
Prospectors Fortune	Grassy Hills	Bonanza Oil & Uranium Co.	Box 1226, Moab, Utah	Gold, Silver, Lead, Zinc
Rainy Day	Slick Rock	Jerry Jones	Box 547, Nucla	Uranium, Vanadium
Rambler	Gypsum Valley	F. E. Lewis & Associates	583 N. 23rd St., Grand Junction	Uranium, Vanadium

Rattlesnake Claims	Leopard Creek	R. E. Rutherford	Blue Jay Courts, Placerville	Uranium, Vanadium
Roger No. 1	Slick Rock	Roy Kamholtz	Ignar	Uranium, Vanadium
S. K. Rim	Slick Rock	Skidmore Mining Co.	Box 558, Dolores	Uranium, Vanadium
San Juan	Matterhorn	Catacraft Mining Corp.	6 Maiden Lane, New York City	Gold, Silver, Lead, Zinc, Copper
Silver Pick	Bear Creek Canyon	Mount Wilson Mining Co.	Telluride	Gold, Silver, Lead, Zinc
Single Jack	Leopard Creek	Hayes Investment Corp.	Moab, Utah	Uranium, Vanadium
Strawberry Roan	Bishop Canyon	Vanadium Corp. of America	Durango	Uranium, Vanadium
Summit	Slick Rock	A. H. Canfield	Dove Creek	Uranium, Vanadium
Sunny Side	Slick Rock	Max Barkley	Cortez	Uranium, Vanadium
Tail Holt	Slick Rock	J. W. McCormick	Box 318, Dove Creek	Uranium, Vanadium
Tiny	Gypsum Valley	Tim Wade & Assoc.	Box 13, Nucla	Uranium, Vanadium
Uncle Sam	Horseshoe Bend	Harold Kincaid	Box 243, Uravan	Uranium, Vanadium
Unitah Adit	Slick Rock	Trenton Davis	Dove Creek	Uranium, Vanadium
Vanadium Queen	McIntyre Canyon	Richard Dillon	Cortez Creek	Uranium, Vanadium
Veta Mad-Veta Glad	Slick Rock	York Minerals, Inc.	Dove Creek	Uranium, Vanadium
Wilson	Slick Rock	C. M. Cooper	Nucla	Uranium, Vanadium

OPERATING MINES IN SUMMIT COUNTY

Alliance	Breckenridge	Robert C. Moffitt	Box 338, Breckenridge	Gold, Silver, Lead
Big Four	Green Mountain Dam	Silver Bull Mining Co.	Breckenridge	Gold, Silver, Lead
Blue Star	Dillon	Tri-State Mining & Milling Co.	332 Colorado Nat'l Bank Bldg., Denver 2	Fluorspar, Uranium, Vanadium
Boss	Dillon	The Boss Mining Co.	194 W. Dakota Ave., Denver 19	Gold, Silver, Lead, Zinc
Chataqua	Montezuma	Acme Uranium Co.	404 First Nat'l Bank Bldg., Denver 2	Gold, Silver, Lead
Colonel Sellers	Kokomo	Colorado Plateau Uranium Co.	Equitable Bldg., Denver 2	Gold, Silver
Green Mountain Girl	Frisco	F. J. Moskal Co., Inc.	3420 Van Buren St., Chicago, Illinois	Gold, Silver, Lead
Juanita Company	Montezuma	Dillon Mining Co.	Dillon	Manganese
Maid of Orleans	Montezuma	Maid of Orleans	Grand Junction	Gold, Silver, Lead, Zinc
Meteor Tunnel	Montezuma	Burke-Martin Mining Co.	Montezuma	Gold, Silver, Lead, Zinc
Minnie	Breckenridge	W. L. Davenport	Breckenridge	Gold, Silver, Lead, Zinc
National Treasure	Horseshoe Basin	Minikus, Olson & Assoc.	Dillon	Gold, Silver, Lead, Zinc
New York	French Gulch	Knight Mining Corp.	2432 Grove St., Denver 11	Gold, Silver, Lead, Zinc
Test Hole No. 1	Breckenridge	Arrow Drilling Co.	1949 Alton St., Denver 8	Gold, Silver, Lead, Zinc
Wellington	Breckenridge	W. L. Davenport	Breckenridge	Gold, Silver, Lead, Zinc

OPERATING QUARRIES IN JACKSON COUNTY

Name of Quarry	Location	Operator	P. O. Address	Product
Whale Pit	Northgate	Ozark-Mahoning Mining Co.	Cowdrey	Fluorspar

OPERATING QUARRIES IN JEFFERSON COUNTY

Cass Company	Golden	Cass Company Contractors	Box 547, Golden	Ballast
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OPERATING QUARRIES IN LAKE COUNTY

Pineview	Leadville	Dale Hoover	Parkdale	Ganister Rock
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OPERATING QUARRIES IN LARIMER COUNTY

Boettcher Quarry & Crushing Plant	La Porte	Ideal Cement Co.	Box 579, Fort Collins	Limestone
Colorado Stone Company's Berthoud Quarries	Berthoud	Board of State Land Commissioners	Capitol Bldg., Denver 2	Stone
Colorado Stone Company's Loveland Quarries	Loveland	Colorado & Southern Railway Co.	509 17th St., Denver 2	Stone
Colorado Stone Company's Red Stone Quarries	Lyons	Pete Johnson	Lyons	Stone
Kissler Quarry	Lyons	Jacobson & Evans Stone Co.	Lyons	Stone
Loveland Quarry	Loveland	U. S. Gypsum Co.	Estes Park Route, Loveland	Gypsum
Online Quarry	Beach Hill	Arthur Online	Lyons	Stone
Rex Quarry	Owl Canyon	Frank H. Norberg	703 Guaranty Bank Bldg., Denver 2	Limestone
Weaver Quarry	Masonville	Weaver Stone Co.	759 St. York St., Denver 9	Stone
Wild Quarry	Masonville	Summers Stone Quarry	Box 124, Lyons	Stone

OPERATING QUARRIES IN MINERAL COUNTY

Sulphur Beds	Trout Creek	Diversified Resources, Inc.	Box 1834, Grand Junction	Sulphur
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OPERATING QUARRIES IN PARK COUNTY

Douglas Nos. 1 & 2	Hartsel	Douglas, Gregory & Hayes	Hartsel	Feldspar, Mica
Sugar Loaf No. 1	Lake George	Carl Quist	Lake George	Quartz, Feldspar

OPERATING QUARRIES IN ROUTT COUNTY

McCoy Aggregate Co.	McCoy	McCoy Aggregate Co.	Steamboat Springs	Pumice
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OPERATING QUARRIES IN SAGUACHE COUNTY

Turquoise Lode Villa Grove Menless Winfield Salida Turquoise

OPERATING QUARRIES IN TELLER COUNTY

Pikes Peak N. W. Corner
Teller County Pikes Peak Granite Co. 126½ E. Pikes Peak Ave.,
Colorado Springs Monumental Stone

OPERATING PEAT BOGS IN BOULDER COUNTY

Name of Bog	Location	Operator	P. O. Address	Product
Green Thumb	Nederland	George Barnes	Nederland	Peat
Mud Lakes	Nederland	Donald Struggs	510 Maxwell St., Boulder	Peat

OPERATING PEAT BOGS IN GILPIN COUNTY

Colorado Peat, Inc.	Blackhawk	Colorado Peat, Inc.	Route 2, Box 79, Golden	Peat
Rudolph Peat Bog	Blackhawk	Gus Rudolph	Black Hawk	Peat

OPERATING PEAT BOGS IN TELLER COUNTY

Alpen Meadows	Lazy S Ranch	Alpen Meadows, Inc.	Box 1074, Colorado Springs	Peat
Bison Peat Bog	Beaver Creek	M. B. Martin	2605 W. Colorado Blvd., Colorado Springs	Peat
Divide Peat Bog	Divide	M. B. Martin	2605 W. Colorado Blvd., Colorado Springs	Peat

OPERATING CLAY MINES AND PITS IN BOULDER COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
North (Spicer)	Rocky Flats	Colorado Brick Co.	Longmont	Clay

OPERATING CLAY MINES AND PITS IN DOUGLAS COUNTY

Helmer Open Pit	Littleton	T. L. Helmer	Route 1, Box 94, Littleton	Clay
Hogback No. 2	Waterton	Robinson Brick & Tile Co.	500 Santa Fe Dr., Denver 19	Clay
Hogback No. 3	Waterton	Robinson Brick & Tile Co.	500 Santa Fe Dr., Denver 19	Clay

OPERATING CLAY MINES AND PITS IN EL PASO COUNTY

Hecla	Husted	Dale Hoover	Box 814, Canon City	Clay
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OPERATING CLAY MINES AND PITS IN FREMONT COUNTY

Name of Mine	Location	Operator	P. O. Address	Product
Flint Nos. 1 & 2	Canon City	C. E. Goodale	712 N. 9th St., Canon City	Clay
Freeman No. 3	Penrose	Edward Freeman	Stone City	Clay

OPERATING CLAY MINES AND PITS IN JEFFERSON COUNTY

Chieftain	Denver	Hansen & Weil Construction Co.	739 S. Ogden St., Denver 9	Clay
Green Mountain Mine	Golden	Geo. W. Parfet Estate, Inc.	Box 226, Golden	Clay
Hedley Clay Pit	Waterton	Hedley Clay Co.	1045 Hooker St., Denver 4	Clay
Johnson Clay Mine No. 1	Golden	Denver Brick & Pipe Co.	4501 Fox St., Denver 16	Clay
Lakewood	Golden	Charles E. Simpson	613 17th St., Golden	Clay
Lariat	Waterton	Robinson Brick & Tile Co.	500 S. Santa Fe Dr., Denver 19	Clay
North Golden Clay Mine	Golden	Denver Fire Clay Co.	2301 Blake St., Denver 5	Clay
Rockwell	Golden	Geo. W. Parfet Estate, Inc.	Box 226, Golden	Clay
Ruby	Golden	Geo. W. Parfet Estate, Inc.	Box 226, Golden	Clay
South	Rocky Flats	Colorado Brick Co.	Box 727, Longmont	Clay
State	Marshall	Colorado Brick Co.	Box 727, Longmont	Clay
Strainland	Golden	Denver Brick & Pipe Co.	4501 Fox St., Denver 16	Clay

OPERATING CLAY MINES AND PITS IN LAS ANIMAS COUNTY

No Name	Trinidad	Trinidad Brick & Tile Co.	Trinidad	Clay
Santa Fe	Starkville	Scott Ruiz Coal Co.	Starkville	Clay

OPERATING CLAY MINES AND PITS IN PUEBLO COUNTY

Chamblin	Capers Spur	Standard Fire Brick Co.	Pueblo	Clay
Meadow Mine No. 5	Stone City	Pueblo Clay Products Co.	Box 1657, Pueblo	Clay
Nellie Helen	Stone City	Arthur L. Wands	Stone City	Clay
Rock Creek	Rock Creek	Standard Fire Brick Co.	Pueblo	Clay
Stone City No. 1	Stone City	Pueblo Clay Products Co.	Pueblo	Clay
Stone City No. 2	Stone City	Pueblo Clay Products Co.	Pueblo	Clay
Stone City No. 6	Stone City	Pueblo Clay Products Co.	Pueblo	Clay

OPERATING MILLS, PLANTS AND SMELTERS IN ADAMS COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
C. L. Hubner Co.	Denver	C. L. Hubner Co.	4200 E. Jewell Ave., Denver 20	Sand, Gravel
North Plant	Denver	Cooley Gravel Co.	6101 Lowell Blvd., Denver 11	Sand, Gravel
Plant Nos. 8 & 10	Denver	Brannon Sand & Gravel Co.	4800 Brighton Blvd., Denver 16	Sand, Gravel
South Plant	Englewood	Cooley Gravel Co.	6101 Lowell Blvd., Denver 11	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN ARAPAHOE COUNTY

OPERATING MILLS, PLANTS AND SMELTERS IN BOULDER COUNTY

Chavez	Boulder Creek	Joe Chavez	Nederland	Tungsten
E. J. & R. M. Ford	Nederland	E. J. & R. M. Ford	2137 Pine St., Boulder	Gold
Hollifield & Prime	Nederland	Johnson Bros. & Prime	Nederland	Tungsten
Joe Smith Mill	Nederland	Joe Smith	Nederland	Tungsten
Lakewood Mill	Nederland	Cobb & Weldon	401 Pine St., Boulder	Tungsten
Marion Mill	Sugar Loaf Road	Wah Chang Corp.	Box 441, Boulder	Tungsten
Mill No. 1 (Jump)	Boulder Falls	Shiprock Industries, Inc.	Box 461, Boulder	Tungsten
Mill No. 2	Sugar Loaf Road	Shiprock Industries, Inc.	Box 461, Boulder	Tungsten
Moore	Sunset	White Raven Mining & Milling Co.	Salina Star Route, Boulder	Silver, Lead
Pastore	Tungsten	James Pastore	1946 Walnut St., Boulder	Tungsten
Valmont Mill	Valmont	General Chemical Division, Allied-Chemical & Dye Corp.	Box 228, Boulder	Fluorspar
Wano Mill	Jamestown	Ozark-Mahoning Co.	Jamestown	Fluorspar
Wolf Tongue Mill	Nederland	Cold Spring Tungsten, Inc.	Box 397, Nederland	Tungsten

OPERATING MILLS, PLANTS AND SMELTERS IN CHAFFEE COUNTY

Monarch Lime Crushing Plant	Monarch	Colorado Fuel & Iron Corp.	Box 489, Salida	Lime
U. S. Fluorspar & Man-ganese Corp.	Brown's Canyon	Continental Mineral Resources, Inc.	400 S. State St., Chicago, Illinois	Fluorspar
Western Feldspar	Salida	Western Feldspar Milling Co.	Box 671, Salida	Feldspar
Burley Mill	Silver Plume	Lisbon Valley Uranium Co.	501 Kittredge Bldg., Denver 2	Gold, Silver, Lead, Zinc
Commonwealth (Lupton) Mill	Georgetown	Greater Minerals Corp.	Georgetown	Gold, Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN CLEAR CREEK COUNTY

OPERATING MILLS, PLANTS AND SMELTERS IN CLEAR CREEK COUNTY—Cont.

Name of Mill or Plant	Location	Operator	P. O. Address	Product
Dixie Mill	Idaho Springs	LeRoy Giles & Co.	Idaho Springs	Gold, Silver, Lead
Front Range Mill	Dumont	Front Range Mines, Inc.	Box 704, Idaho Springs	Gold, Silver, Lead,
Lucky Seven Mill	Freeland Gulch	Lucky Seven Mining Corp.	2460 Odie St., Edgewater	Zinc
Silver Spruce Mill	Idaho Springs	Alpha Mining & Milling Co.	Idaho Springs	Gold, Silver, Lead,
Trail Creek Mill	Trail Creek	Sarstark Mining Co.	Idaho Springs	Zinc
				Gold, Silver, Lead,
				Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN CUSTER COUNTY

Turner Mill	Silver Cliff	H. L. Turner	Silver Cliff	Copper
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OPERATING MILLS, PLANTS AND SMELTERS IN DELTA COUNTY

Delta Sand & Gravel Co.	Delta	Delta Sand & Gravel Co.	Box 103, Delta	Sand, Gravel
Hamilton Crushing Plant	Delta	W. A. Hamilton	Cederidge	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN DENVER COUNTY

Consolidated Feldspar Dept.	Denver	International Minerals & Chemical Corp.	1333 W. Maple Ave., Denver 19	Feldspar
Denver Works	Denver	General Chemical Division, Allied Chemical & Dye Corp.	1271 W. Bayaud Ave., Denver 23	Sulphuric Acid
Globe Plant	Globeville	American Smelting & Refining Co.	803 First Nat'l Bank Bldg., Denver 2	Cadmium & By-Products

OPERATING MILLS, PLANTS AND SMELTERS IN DOLORES COUNTY

Argentine Mill	Rico	Rico Argentine Mining Co.	Rico	Zinc, Lead, Iron
Rico Sulphuric Acid Plant	Rico	Rico Argentine Mining Co.	Rico	Sulphuric Acid

OPERATING MILLS, PLANTS AND SMELTERS IN EAGLE COUNTY

Eagle Mill	Gilman	Empire Zinc Co.	Gilman	Lead, Zinc
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OPERATING MILLS, PLANTS AND SMELTERS IN FREMONT COUNTY

Canon City Mill	Canon City	New Jersey Zinc Co.	Canon City	Zinc
Portland Cement Plant	Canon City	Ideal Cement Co.	Box 231, Florence	Cement
Portland Plaster Mill	Portland	Ideal Cement Co.	Box 231, Florence	Plaster
Pozzian	Howard	Wellpoz, Inc.	2001 Beacon St., Colorado Springs	Oil Well Cement

OPERATING MILLS, PLANTS AND SMELTERS IN GARFIELD COUNTY

Basic Chemical Co.	Glenwood Springs	Basic Chemical Co.	Glenwood Springs	Lime
Rifle Plant	Rifle	Union Carbide Nuclear Co.	Rifle	Uranium, Vanadium
Union Oil Shale Plant	Grand Valley	Isbell Construction Co. and Stearns-Roger Mfg. Co.	Grand Valley	Plant Construction
			660 Bannock St., Denver 4	Plant Construction

OPERATING MILLS, PLANTS AND SMELTERS IN GILPIN COUNTY

Boodile Mill	Central City	United Mining & Leasing Co.	Box 246, Central City	Gold, Silver, Zinc, Uranium
Cherokee	Lake Gulch	Cherokee Uranium Mining Corp.	609 Equitable Bldg., Denver 2	Gold, Silver, Lead, Zinc, Uranium
Federal Mill	Russell Gulch	Montana Chemical & Milling Corp.	325 2nd Ave., Edgemont, South Dakota	Gold, Silver, Lead, Zinc
Glory Hole Crushing Plant	Nevadaville	Glory Hole, Inc.	Central City	Gold, Silver, Lead, Zinc, Copper
Glory Hole Mill	Central City	Glory Hole, Inc.	Central City	Gold, Silver, Lead, Zinc, Uranium
Golden Gilpin	Black Hawk	Royal Mining & Milling Co.	Box 571, Loveland	Gold, Silver, Lead, Zinc
Golden Shaft	Silver Creek	Golden Shaft Mining & Milling Co.	Box 335, Central City	Gold, Silver, Lead

OPERATING MILLS, PLANTS AND SMELTERS IN GUNNISON COUNTY

Basic Chemical Mill	Marble	Basic Chemical Corp.	Box 270, Glenwood Springs	Crushed Marble
Keystone Unit Plant	Crested Butte	American Smelting & Refining Co.	600 Crandell Bldg., Salt Lake City, Utah	Gold, Silver, Lead, Zinc, Copper
Silver Streak Mill	Crested Butte	Atlas Uranium Corp.	Box 328, Crested Butte	Gold, Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN JACKSON COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
Northgate	Cowdrey	Ozark-Mahoning Co.	Cowdrey	Fluorspar

OPERATING MILLS, PLANTS AND SMELTERS IN JEFFERSON COUNTY

Beryl Ores Co.	Arvada	Beryl Ores Co.	Box 105, Route 1, Arvada	Beryl
Bramley Construction, Inc.	Morrison	Bramley Construction Co., Inc.	2300 W. Oxford St., Littleton	Sand, Gravel
Brannon Sand & Gravel Co. (Pit No. 11)	Wheatridge	Brannon Sand & Gravel Co.	4800 Brighton Blvd., Denver	Sand, Gravel
C. L. Hubner & Co.	Wheatridge	C. L. Hubner & Co.	4200 E. Jewell St., Denver	20 Sand, Gravel
Rio Grande Gravel Co.	Wheatridge	Rio Grande Gravel Co.	123 Santa Fe Drive, Denver	19 Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN LAKE COUNTY

Arkansas Valley Plant	Leadville	American Smelting & Refining Co.	Leadville	Gold, Silver, Lead, Copper
Climax Mill	Climax	Climax Molybdenum Co.	Climax	Molybdenum, Tungsten, Tin
Climax Sand & Gravel Plant	Climax	C. Ryan & Son	Climax	Sand, Gravel
Cloud City Mill	Leadville	Adolph Sadar	502 W. 7th St., Leadville	Gold
Lincoln Mill	Big Evans	Gulch Lincoln Mine & Milling Co.	106 Harrison Ave., Leadville	Silver, Lead
Resurrection Mill	California	Gulch Resurrection Mining Co.	Leadville	Gold, Silver, Lead, Zinc, Copper
T & K Mills	California	Gulch Louis Kostelic	203 W. 3rd, Leadville	Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN LA PLATA COUNTY

Vanadium Corp. of America (Durango Plant)	Durango	Vanadium Corp. of America	Durango	Uranium, Vanadium
Zodmok Mill	La Plata	Canyon Zodmok Mines, Inc.	Box 452, Durango	Gold, Silver

OPERATING MILLS, PLANTS AND SMELTERS IN LARIMER COUNTY

Boettcher Plant	LaPorte	Ideal Cement Co.	Box 579, Fort Collins	Cement
Sterling Sand & Gravel Co.	Fort Collins	Sterling Sand & Gravel Co.	1800 Taft Hill Road, Fort Collins	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN MESA COUNTY

Atomic Energy Commission	Grand Junction	United States Atomic Energy Commission	Grand Junction	Uranium Development
Climax Mill	Grand Junction	Climax Uranium Co.	Grand Junction	Uranium, Vanadium

OPERATING MILLS, PLANTS AND SMELTERS IN MINERAL COUNTY

Emperius Mill	Creede	Emperius Mining Co.	Creede	Lead, Zinc
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OPERATING MILLS, PLANTS AND SMELTERS IN MONTEZUMA COUNTY

Colorado Carbonates	McElmo Canyon	Colorado Carbonates, Inc.	Box 785, Cortez	Dry Ice
Neilsons, Inc.	Dolores	Neilsons, Inc.	Dolores	Sand, Gravel

OPERATING MILLS, PLANTS AND SMELTERS IN MONTROSE COUNTY

Union Carbide Nuclear Co.	Uravan	Union Carbide Nuclear Co.	Uravan	Uranium, Vanadium
Vanadium Corp. of America	Naturita	Vanadium Corp. of America	Naturita	Uranium, Vanadium

OPERATING MILLS, PLANTS AND SMELTERS IN OURAY COUNTY

Camp Bird	Ouray	King Lease, Inc.	Ouray	Gold, Silver, Lead, Zinc, Copper
Rolling J Mining & Milling	Ouray	Roland Jahne	Ouray	Gold, Silver, Lead, Zinc
Silver Shield	Ouray	Utaco Uranium, Inc.	Ouray	Gold, Silver, Lead, Zinc, Copper
Treasury Mill	Red Mountain	Idarado Mining Co.	Ouray	Gold, Silver, Lead, Zinc, Copper

OPERATING MILLS, PLANTS AND SMELTERS IN PUEBLO COUNTY

Mica Grinding Plant	Pueblo	International Minerals & Chemical Co.	Pueblo	Mica
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OPERATING MILLS, PLANTS AND SMELTERS IN SAGUACHE COUNTY

Name of Mill or Plant	Location	Operator	P. O. Address	Product
Schmidt Mill	Bonanza	D. W. Schmidt	Bonanza Route, Villa Grove	Under Construction

OPERATING MILLS, PLANTS AND SMELTERS IN SAN JUAN COUNTY

Lead Carbonate Mill	Gladstone	Treasure Mountain, Inc.	Silverton	Gold, Silver, Lead, Zinc
Pride	Howardsville	Pride Mill, Inc.	Silverton	Gold, Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN SAN MIGUEL COUNTY

Butterfly	Ophir	A. Delbert McCluskey	Box 402, Telluride	Gold, Silver, Lead, Zinc
Pandora Mill	Telluride	Idarado Mining Co.	Telluride	Gold, Silver, Lead, Copper, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN SUMMIT COUNTY

Acme Uranium Mill	Montezuma	Acme Uranium Co.	404 First Nat'l Bank Bldg., Denver 2	Gold, Silver, Lead, Silver, Lead, Zinc
Burke-Martin Mill	Montezuma	Burke-Martin Co.	Montezuma	Silver, Lead, Zinc
Moskal Mill	Dillon	Moskal Leasing Co.	Breckenridge	Silver, Lead, Zinc

OPERATING MILLS, PLANTS AND SMELTERS IN TELLER COUNTY

Carlton Mill	Victor	Golden Cycle Corp.	Box 47, Victor	Gold
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OPERATING MILLS, PLANTS AND SMELTERS IN WELD COUNTY

Fay Garner & Company	Greeley	Fay Garner & Company	Box 913, Greeley	Sand, Gravel
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OPERATING PLACERS IN CLEAR CREEK COUNTY

Name of Placer	Location	Operator	P. O. Address	Product
Conqueror	Mill Creek	Donald T. Gibson	4319 W. 46th Ave., Denver 12	Gold
Franks Placer	Idaho Springs	George Franks & Son	1147 Lincoln Place, Boulder	Gold

OPERATING PLACERS IN GILPIN COUNTY

Durand Brothers	Gilpin	Durand Brothers	Box 515, Rollinsville	Gold
Gold Nugget	Black Hawk	William C. Spitz	329 Pearl St., Denver 3	Tourist-Gold

OPERATING PLACERS IN LAKE COUNTY

Bird Page Placer	Leadville	C. R. McDaniel	Box 363, Rifle	Gold
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OPERATING PLACERS IN PARK COUNTY

Alma	Alma	Mazzocco Construction Co.	Box 96, Alma	Gold
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OPERATING PLACERS IN SUMMIT COUNTY

Galena	N. E. Brecken- ridge	C. & H. Leasing Co.	1124 10th St., Denver 4	Gold
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ROAD WORK, TUNNELS AND DAMS—1956

CLEAR CREEK COUNTY

Name of Operation	Location	Operator	P. O. Address	Project
Jones Pass Tunnel	Jones Pass	Michigan Sewer Constructors	Box 217, Empire	Water Tunnel
Vasquez Tunnel (Surface)	Jones Pass	Sharpe Construction Co.	Trinidad	Water Tunnel
Vasquez Tunnel	Jones Pass	Michigan Sewer Constructors	Box 217, Empire	Water Tunnel

DELTA COUNTY

Highway	Pioneer Construction Co.	21050 Oakland St., Pueblo	Highway
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GILPIN COUNTY

Culvert	Black Hawk	C. L. Hubner Co.	Box 8757, University Park	Culvert
Moffat Water Tunnel	East Portal	Denver Tunnel Constructors	Sta. Denver 725 W. 39th Ave., Denver 16	Water Diversion Tunnel

GUNNISON COUNTY

Highway	McMillon Construction Co.	3050 S. Huron St., Englewood	Highway
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ROAD WORK, TUNNELS AND DAMS—1956—Cont.

LAKE COUNTY

Name of Operation	Location	Operator	P. O. Address	Project
Carlton Tunnel	Leadville	Boyle Bros. Drilling Co.	Salt Lake City, Utah	Water Tunnel
Homestake Tunnel	Turquoise Lake	Mazzocco Construction Co.	Box 1298, Colorado Springs	Water Tunnel

LA PLATA COUNTY

Road Highway	Bessie G. Road	Fairway Construction Co. E. J. Rippey & Sons	726 5th Ave., Durango New Castle	Road Highway
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MESA COUNTY

Highway		Gardner Construction Co.	Box 360, Glenwood Springs	Highway
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MONTEZUMA COUNTY

Tunnel	Mesa Verde Nat'l Park	A. S. Horner Construction Co. McMillon Construction Co.	Cortez 3050 S. Huron St., Englewood New Castle	Tunnel Highway Highway
Highway		E. J. Rippey & Sons		

MONTROSE COUNTY

Highway		San Ore Construction Co.	McPherson, Kansas	Highway
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PARK COUNTY

Harold D. Roberts Tunnel	Grant	Blue River Constructors	Dillon	Water Tunnel
Montgomery Dam	Montgomery Gulch	Fisher Contracting Co.	Alma	Dam

SAN JUAN COUNTY

Road	Paradox	Lowdermilk Construction Co.	1950 W. Dartmouth, Englewood Box 163, Silverton	Road
Tunnel	Lime Creek	Quad Construction Co.		Water Tunnel

SAN MIGUEL COUNTY

Crushing Mill Silick Rock Harrison & Atchison 1566 S. Bannock St., Denver 19 Construction

SUMMIT COUNTY

Harold D. Roberts Tunnel Dillon Blue River Constructors Dillon Water Tunnel

YUMA COUNTY

Highway C. L. Hubner Co. 4200 Josephine St., Denver 16 Highway 51

CORE AND WAGON DRILLING OPERATIONS

Brasier Brothers Construction Co.	Norwood	Colorado Plateau
Cannon Diamond Drilling Co.	Box 712, Grand Junction	Colorado Plateau
Franklin & Cowan	Box 546, Ozona, Texas	Colorado Plateau
Johnson & Youvan	Naturita	Colorado Plateau
Joy Manufacturing Co.	Box 956, Cortez	Colorado Plateau
Kostyk Drilling Co.	Grand Junction	Colorado Plateau
Lippoth & Wein	Box 502, Grand Junction	Colorado Plateau
McPherson Drilling Co.	Box 185, Naturita	Colorado Plateau
Minerals Engineering Co.	801 4th Ave., Grand Junction	Colorado Plateau
Mott & Sons, Inc.	Box 830, 8th Ave., Huntington, West Virginia	Colorado Plateau
Sprague & Henwood	Box 645, Grand Junction	Colorado Plateau
U.M.W.C. Mining Co.	Uravan Route, Whitewater	Colorado Plateau
Western Machinery Co.	Grand Junction	Colorado Plateau

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